

09888061 062101
"T9088860"

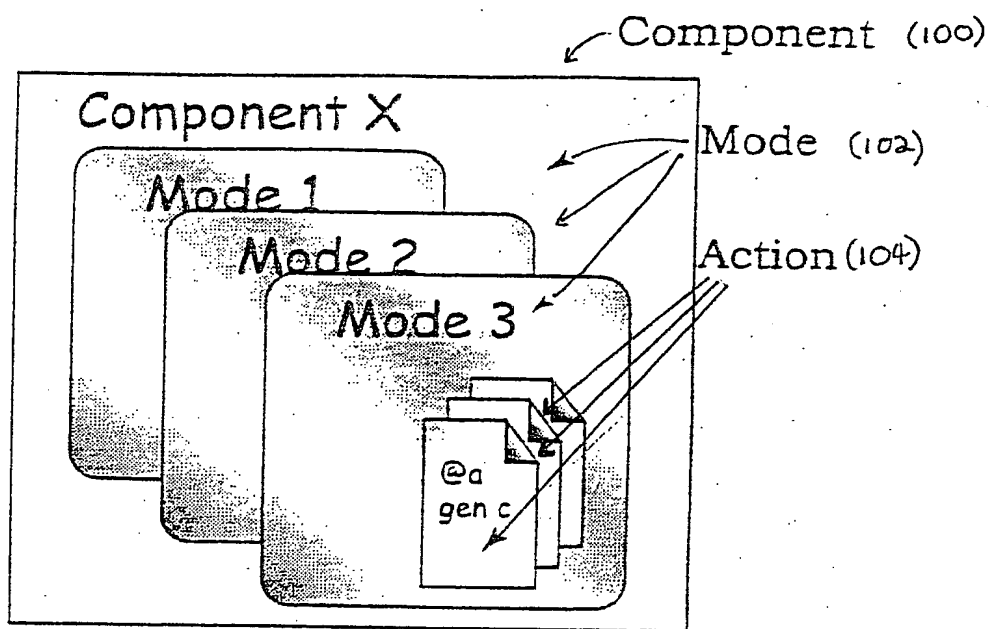


Figure 1

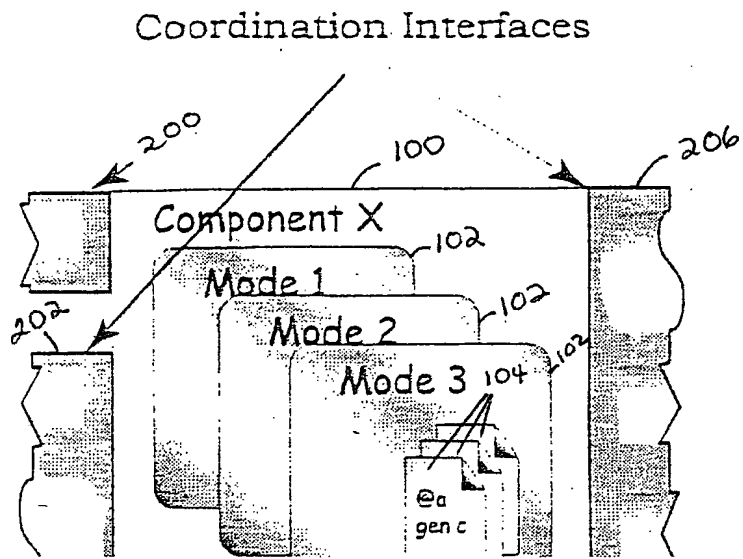


Figure 2

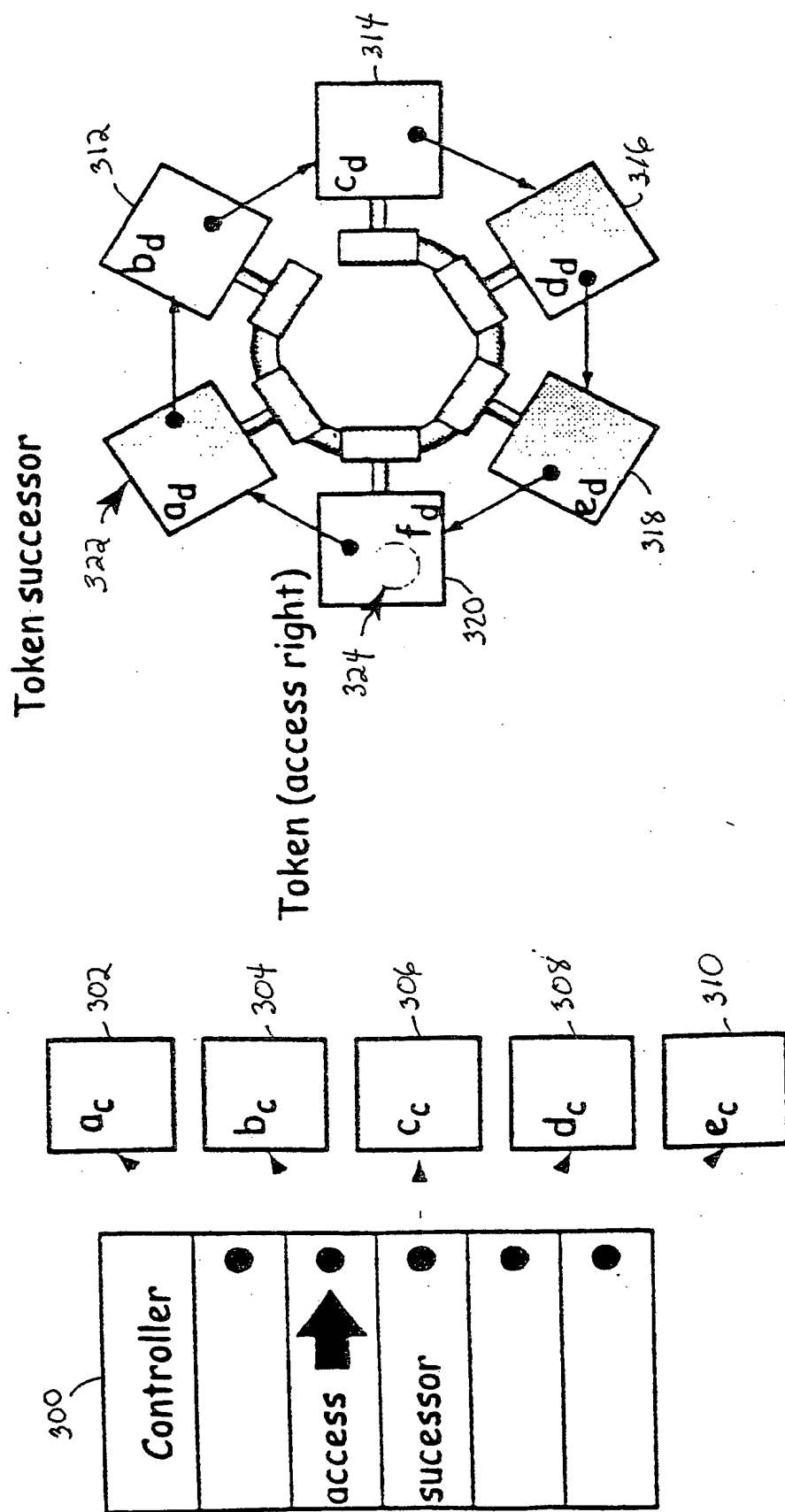


Figure 3B

Figure 3A

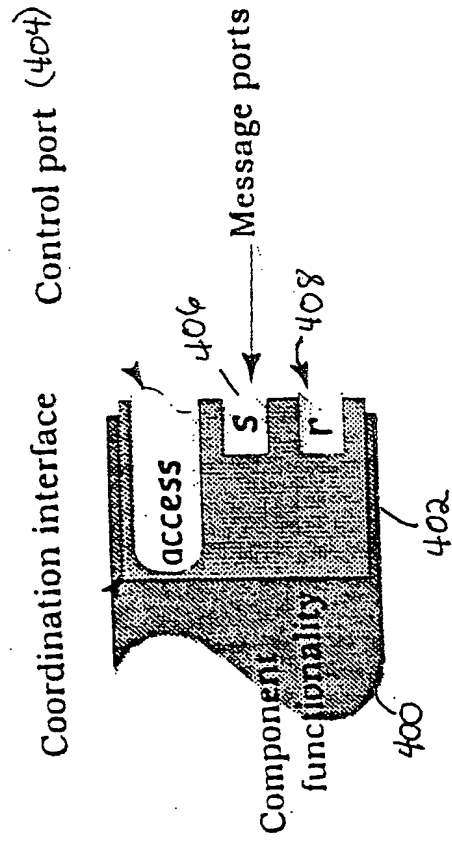


Figure 4A

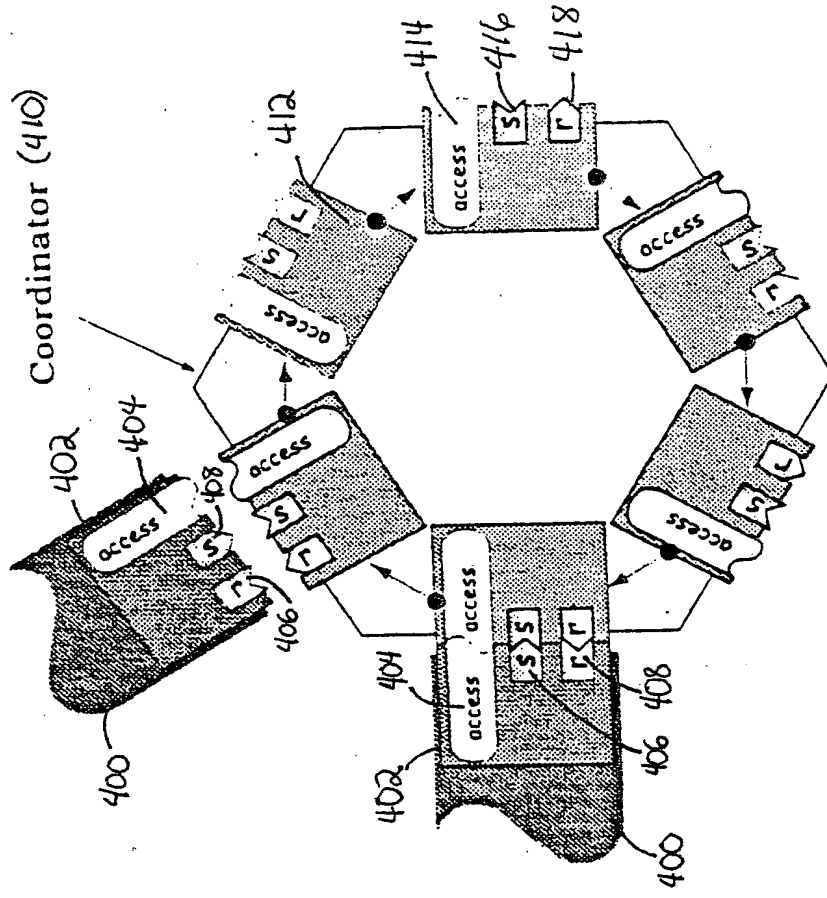


Figure 4B

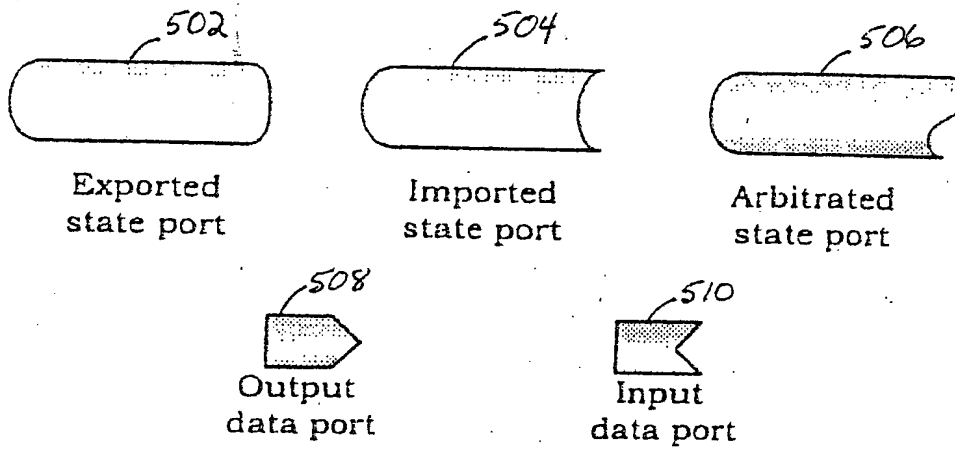


Figure 5

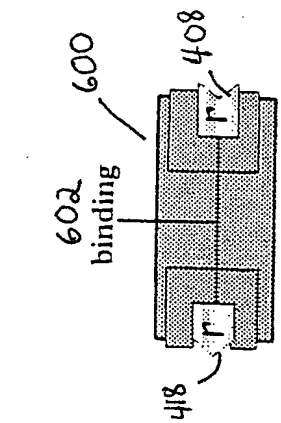


Figure 6A

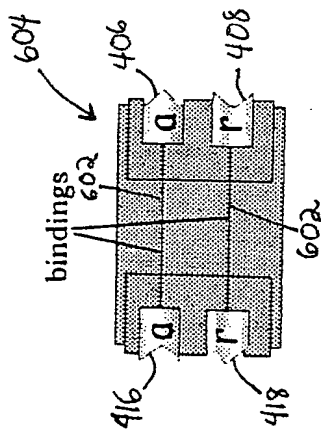


Figure 6B

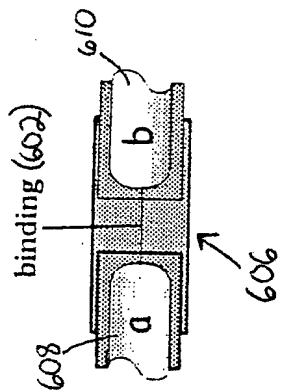


Figure 6C

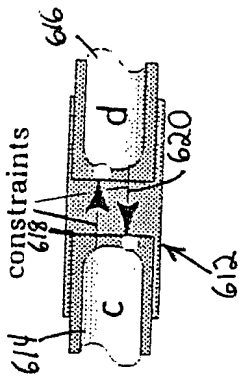


Figure 6D

09888061.062101
TOT290.T988860

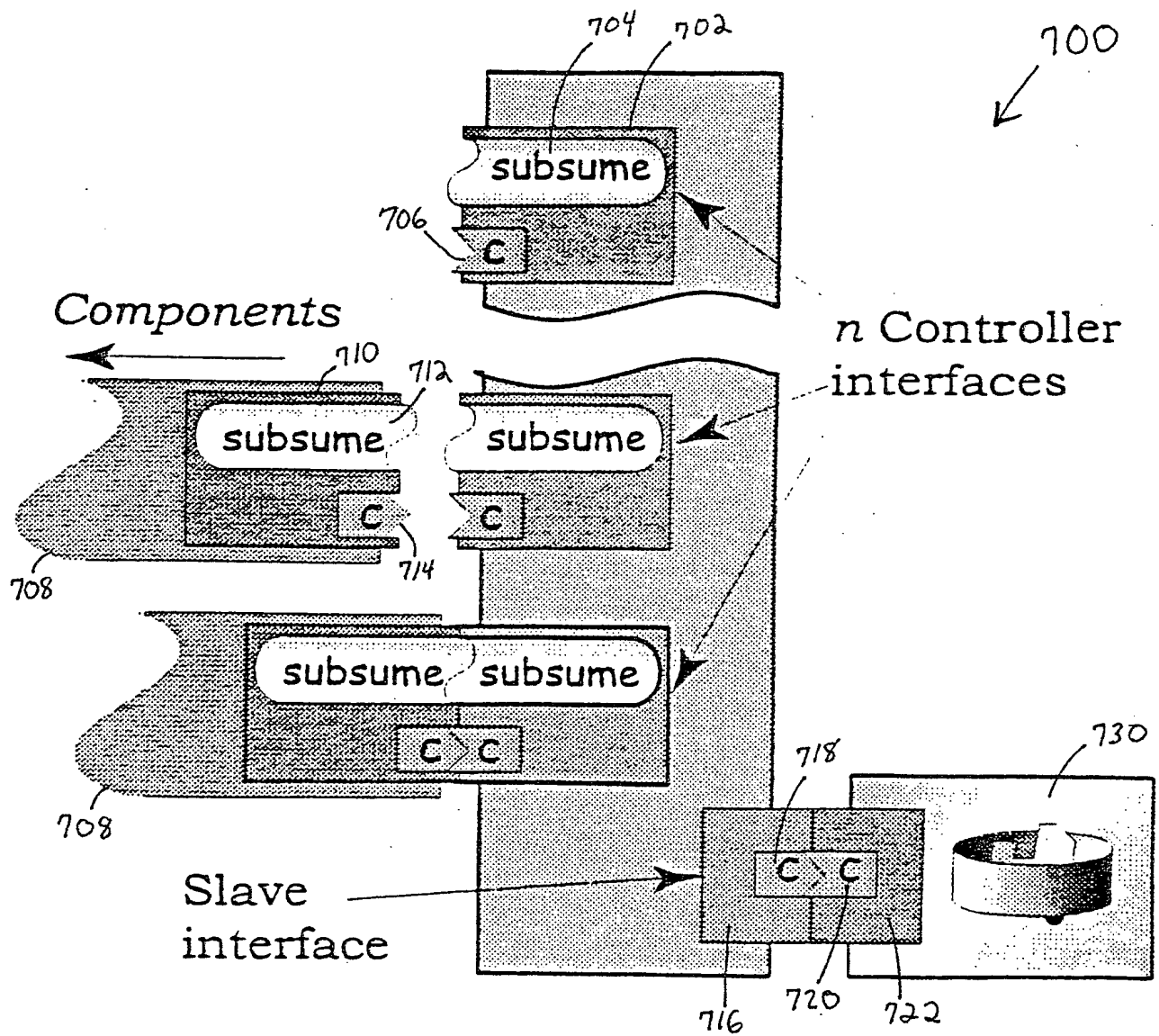


Figure 7

09888061.062401

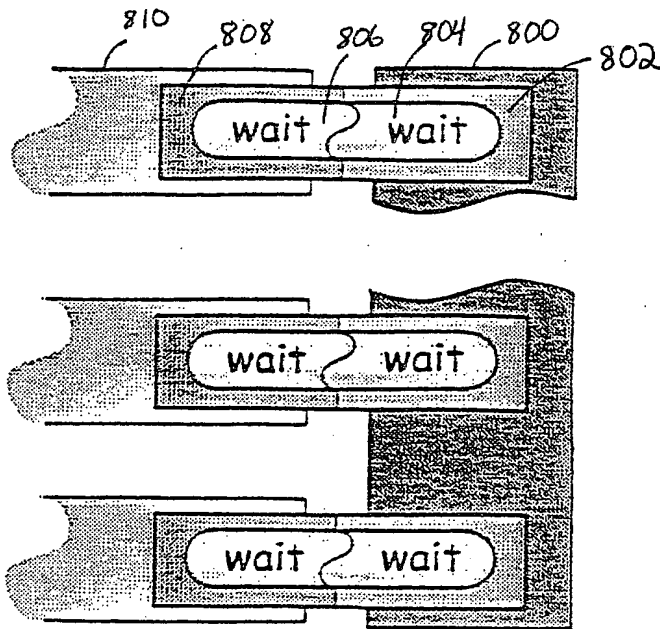


Figure 8

09888061.062101

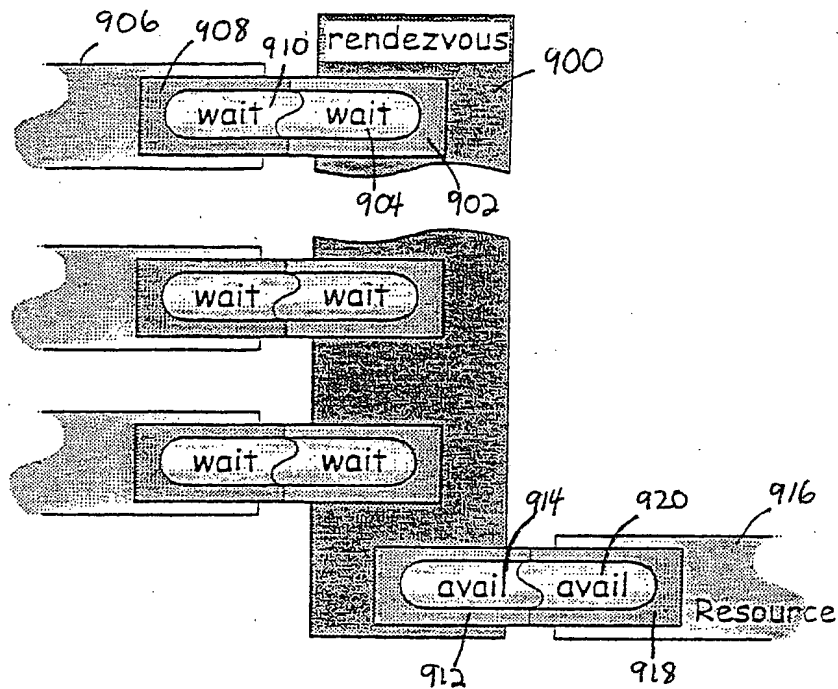


Figure 9

09888061.062101
T01290" T908860

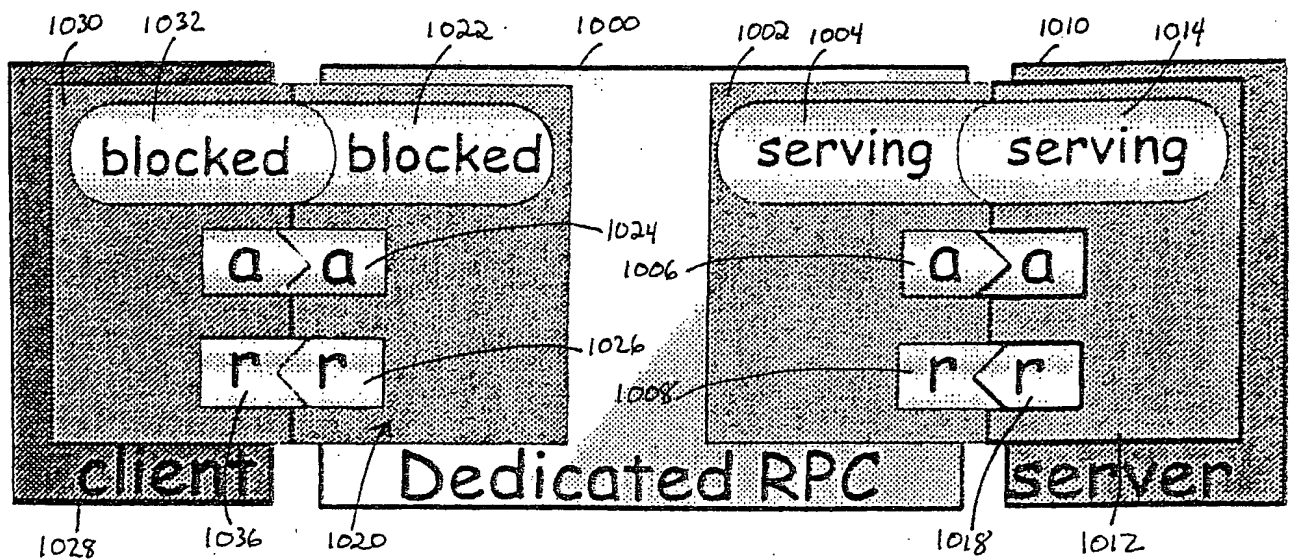


Figure 10

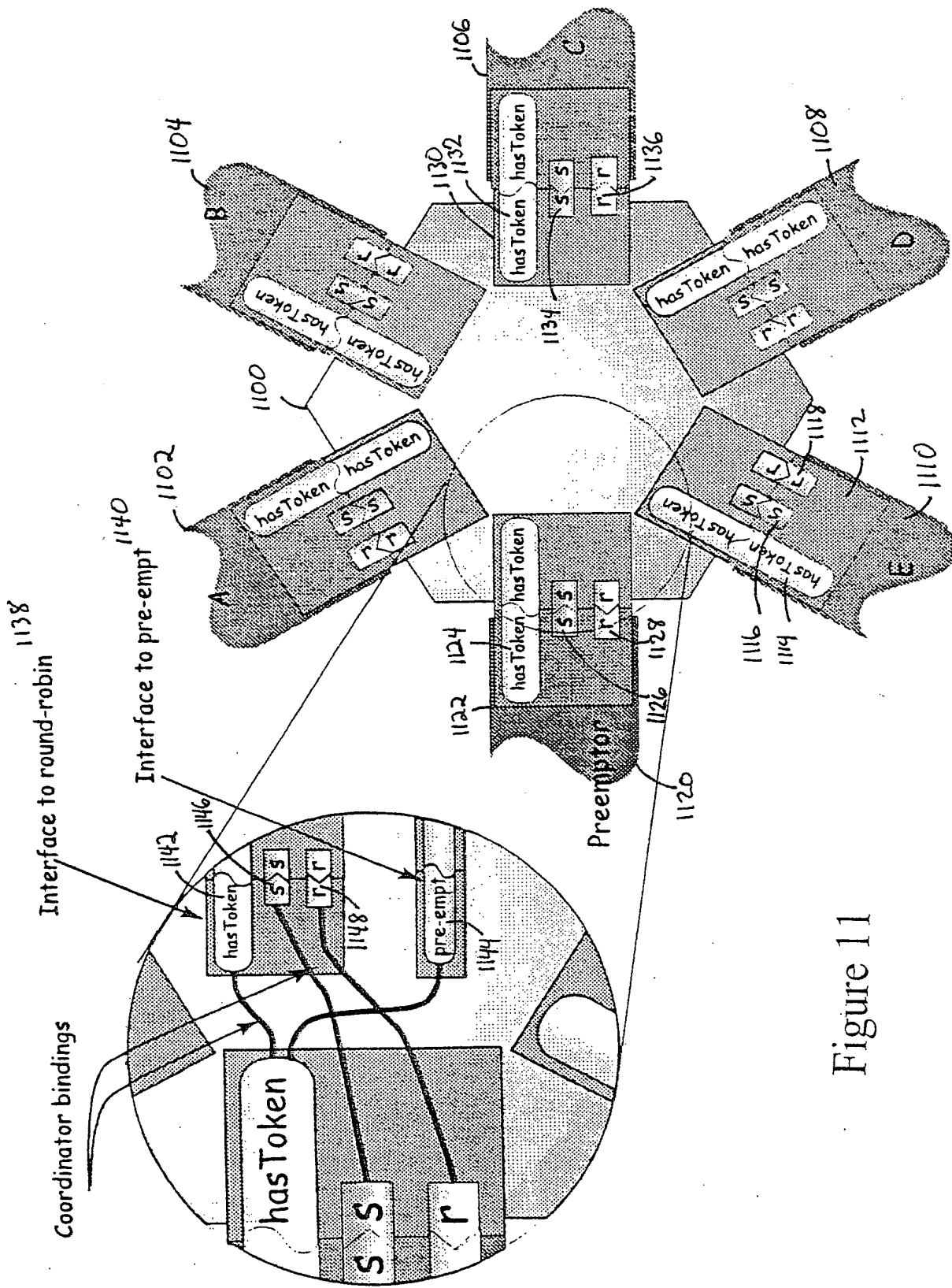


Figure 11

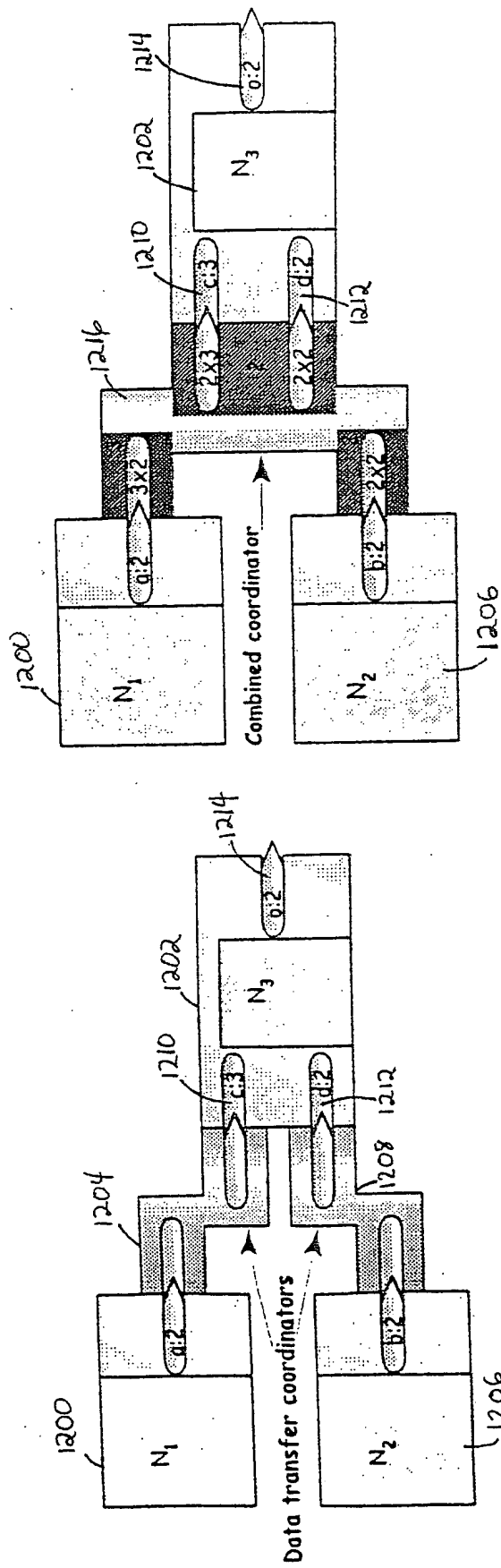


Figure 12A

Figure 12B

0938061.062101

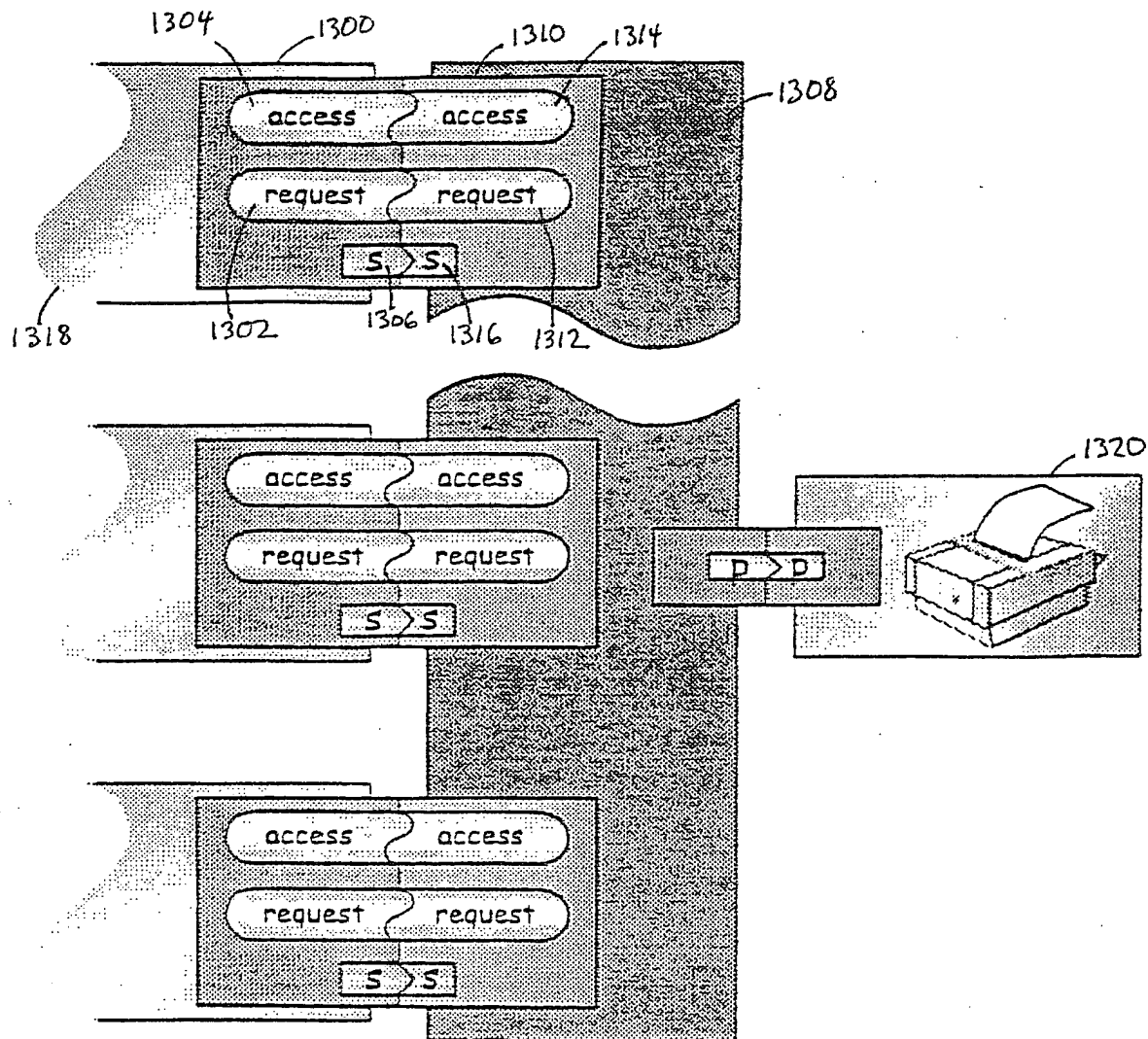


Figure 13

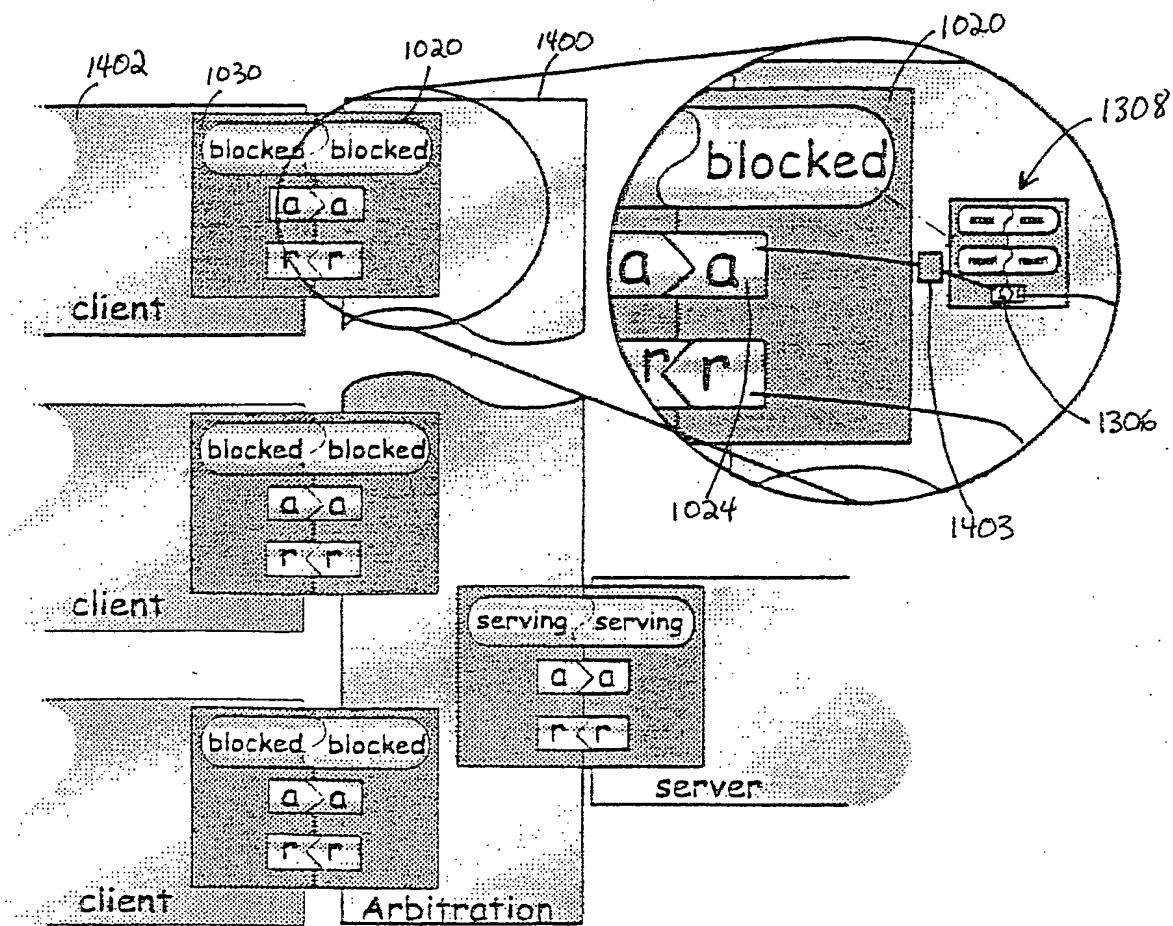


Figure 14

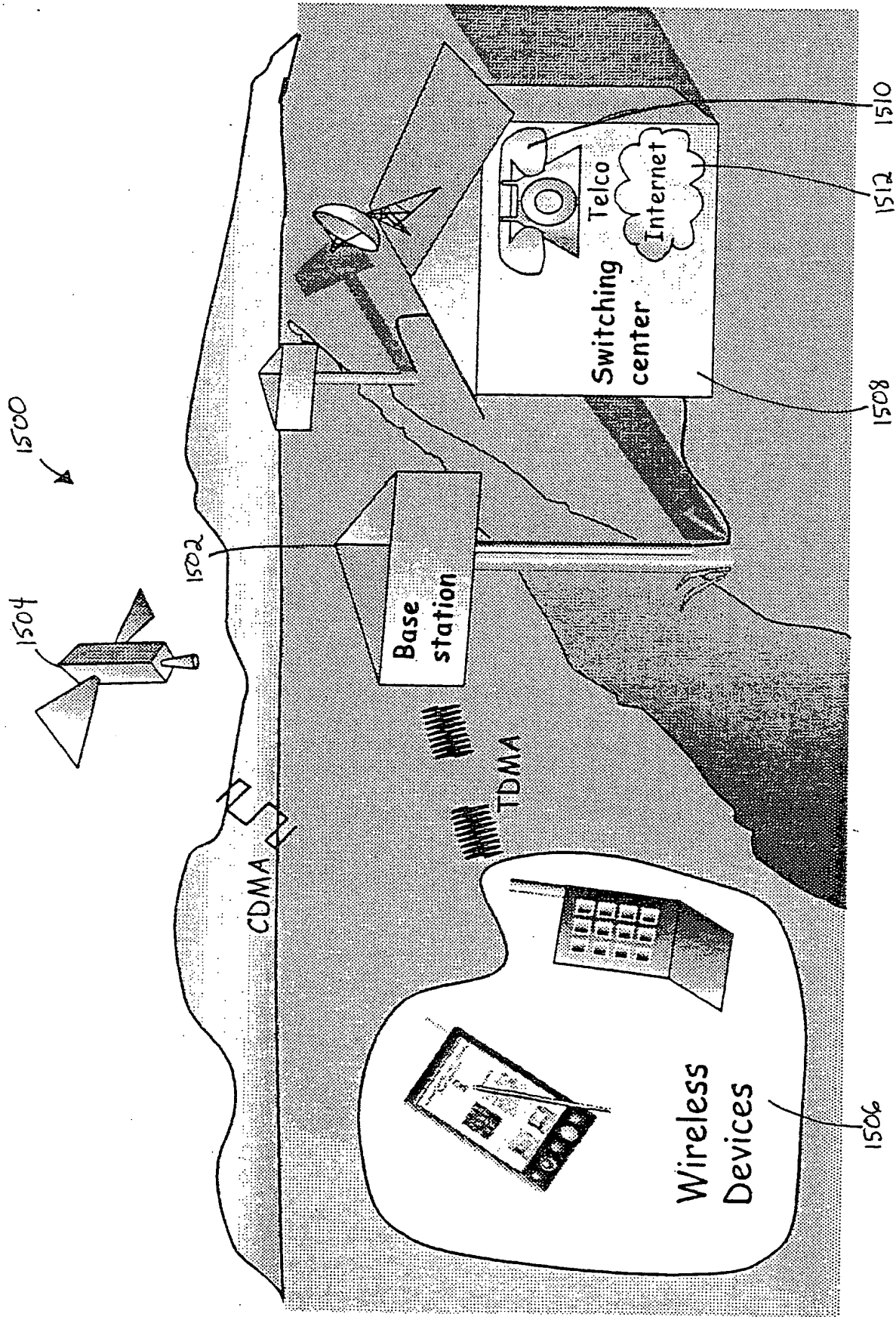


Figure 15

09888061.062101

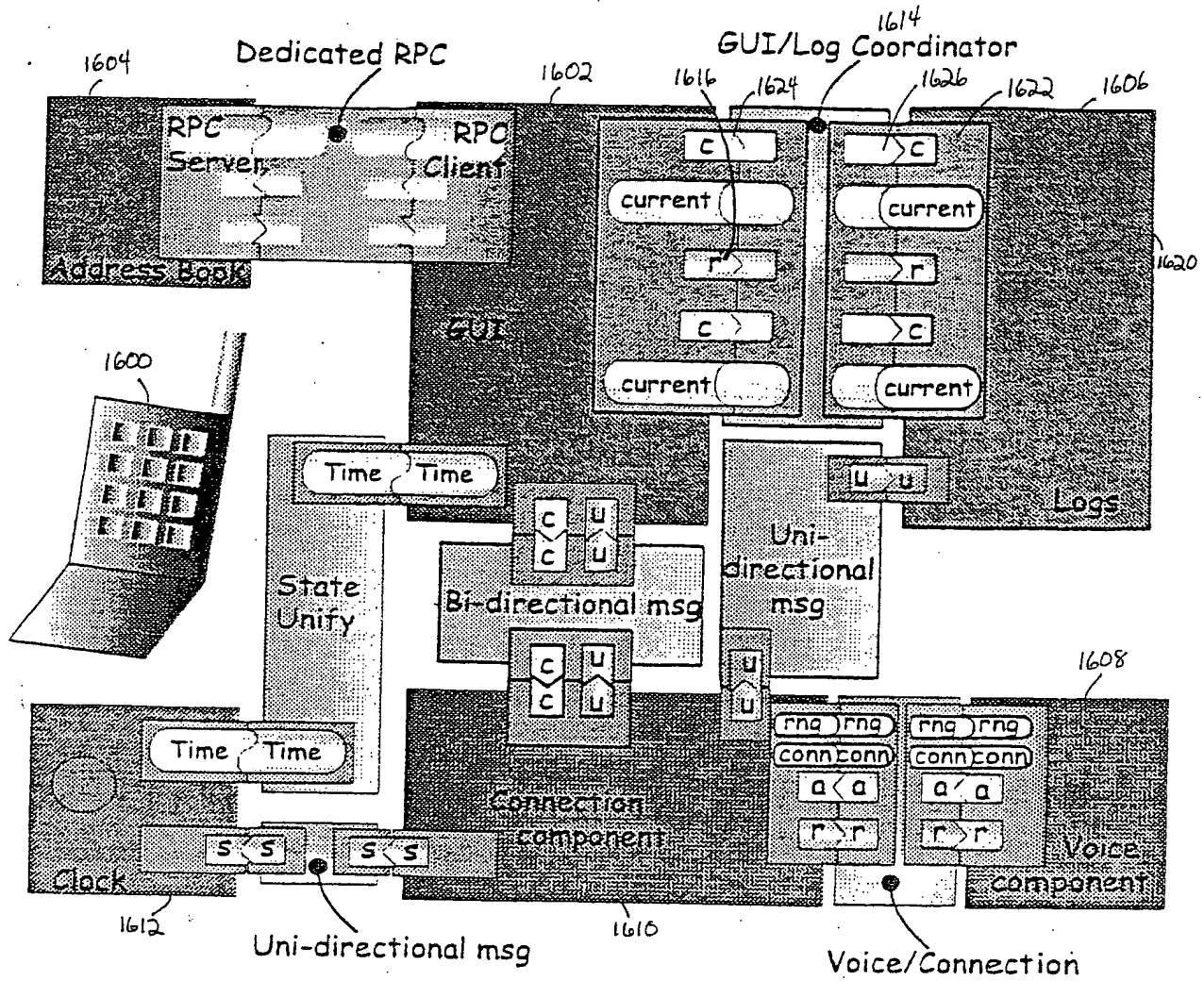


Figure 16

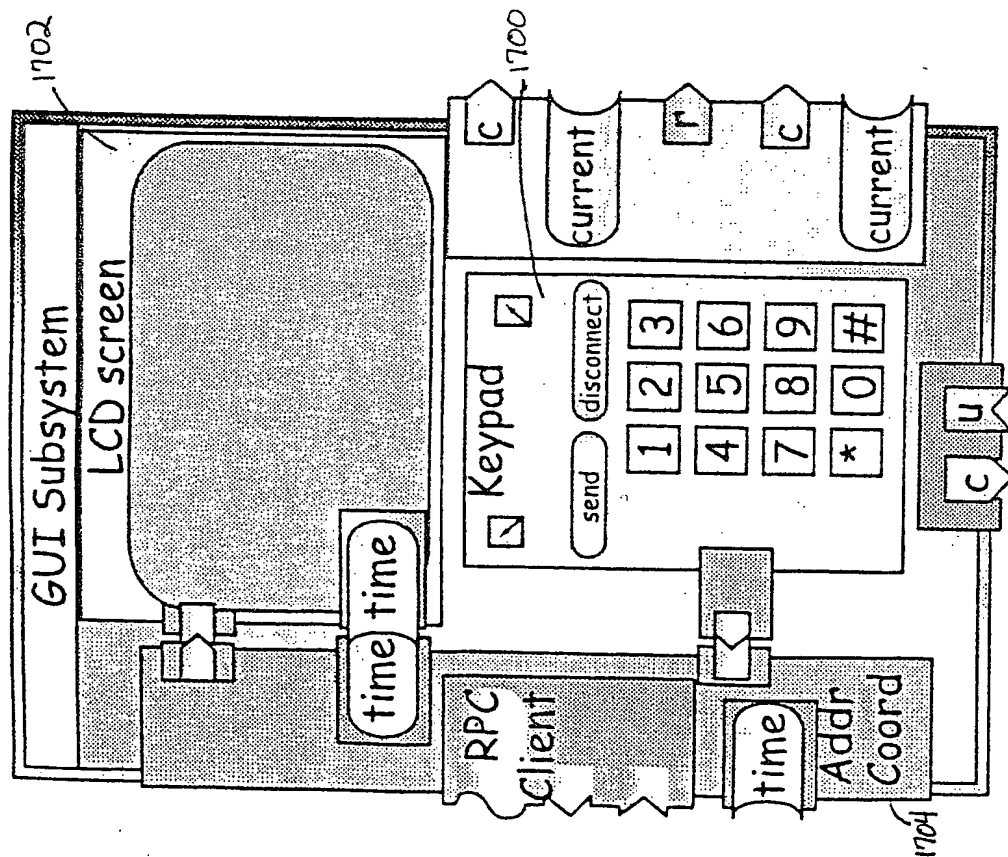


Figure 17A

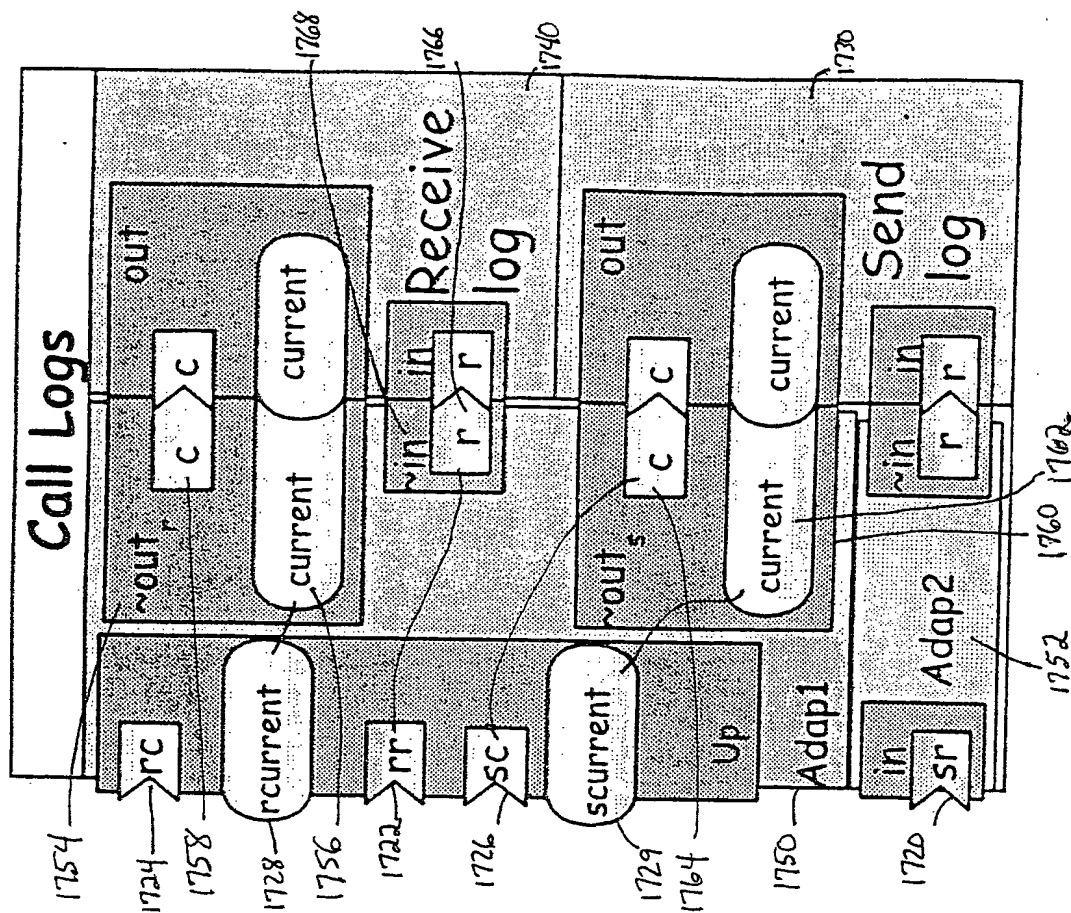


Figure 17B

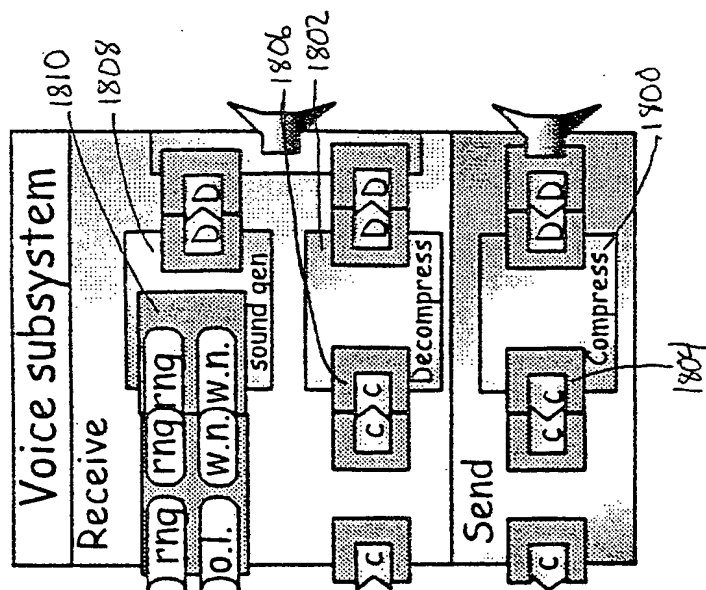


Figure 18A

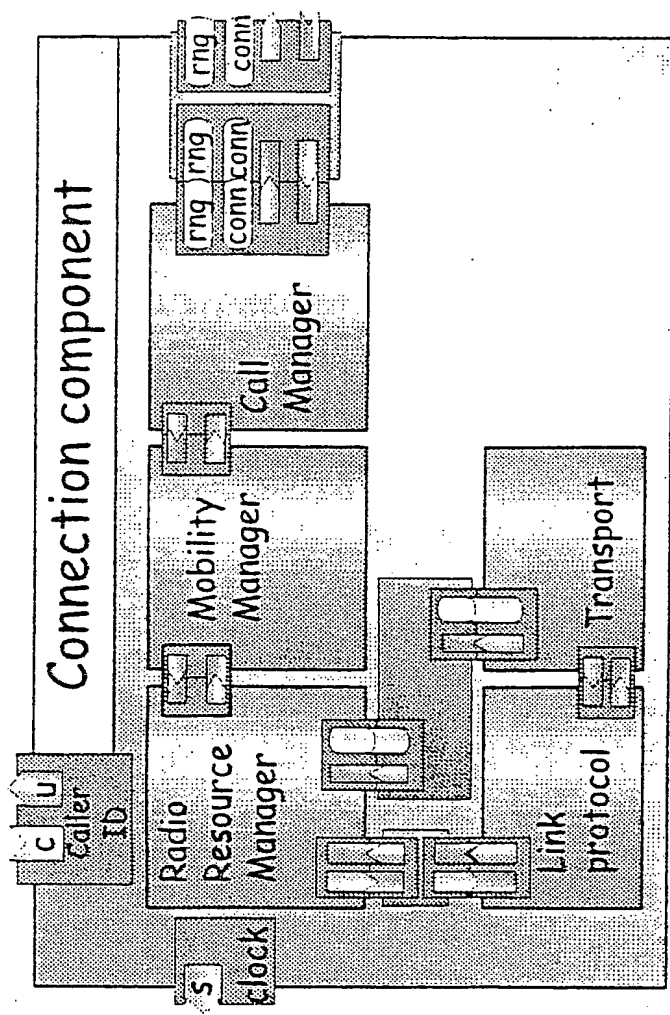


Figure 18B

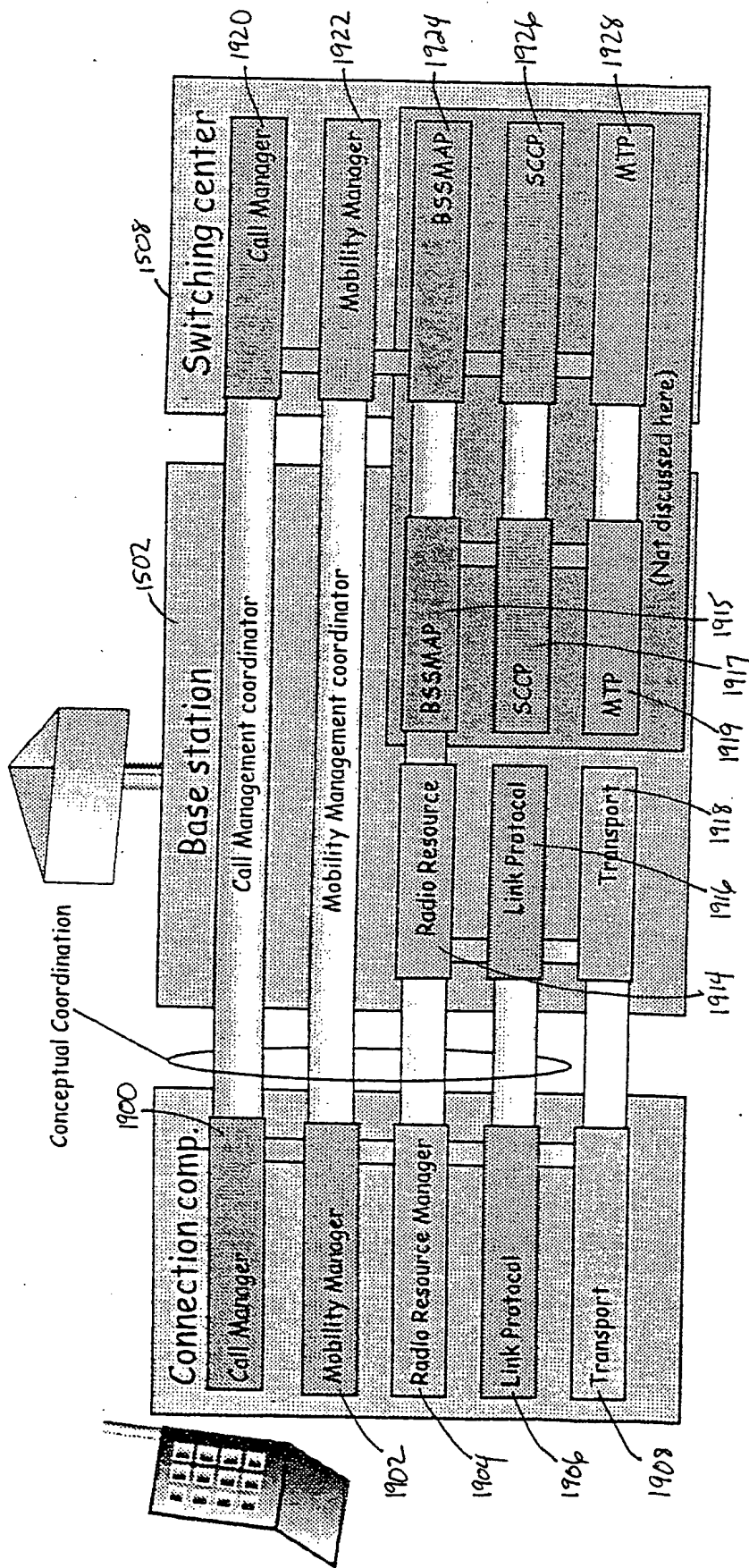


Figure 19

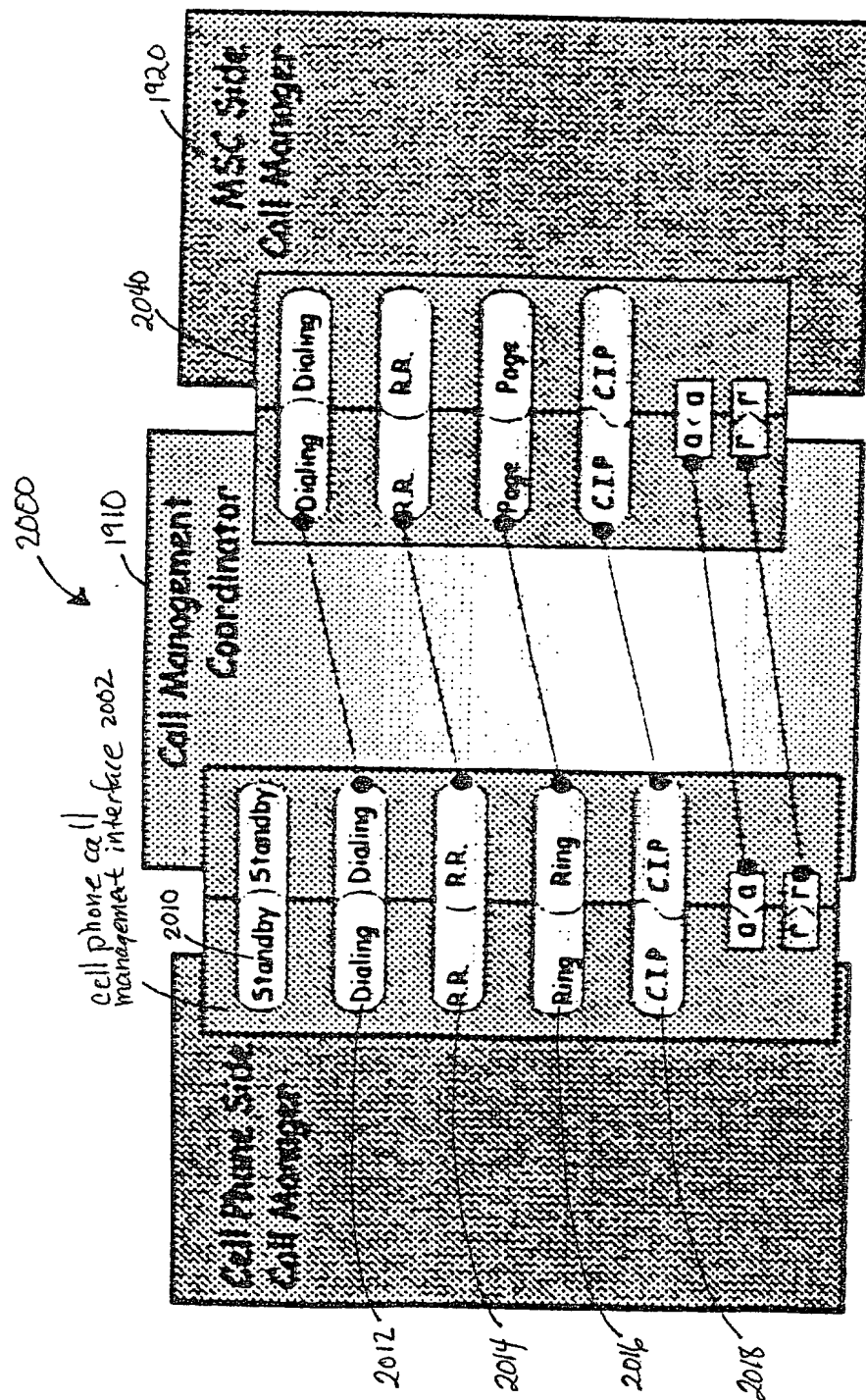


Figure 20

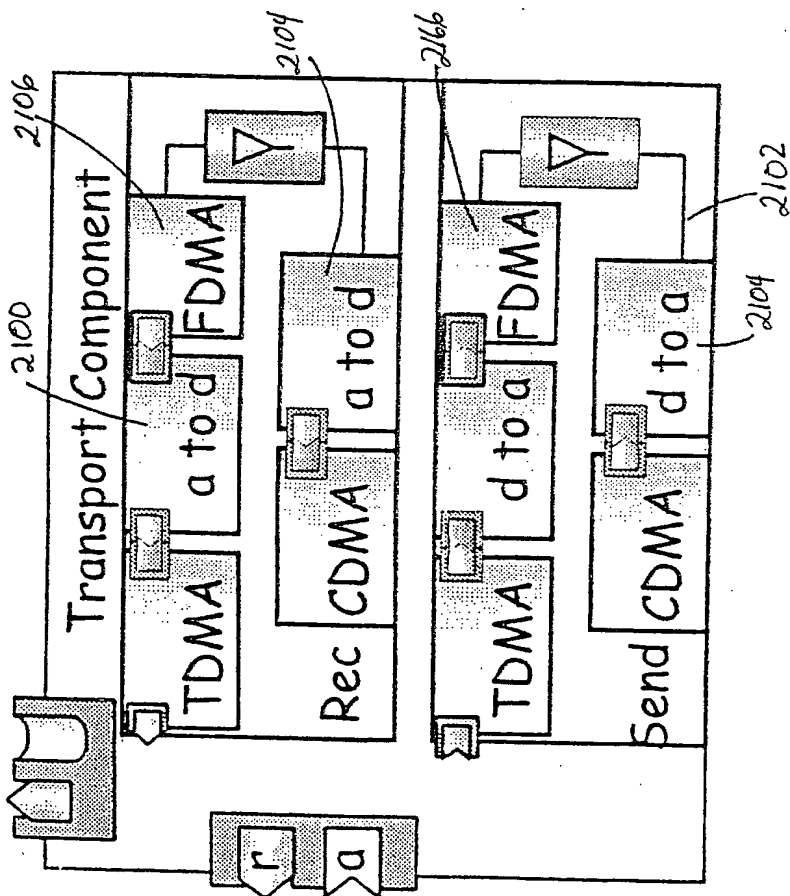


Figure 21A

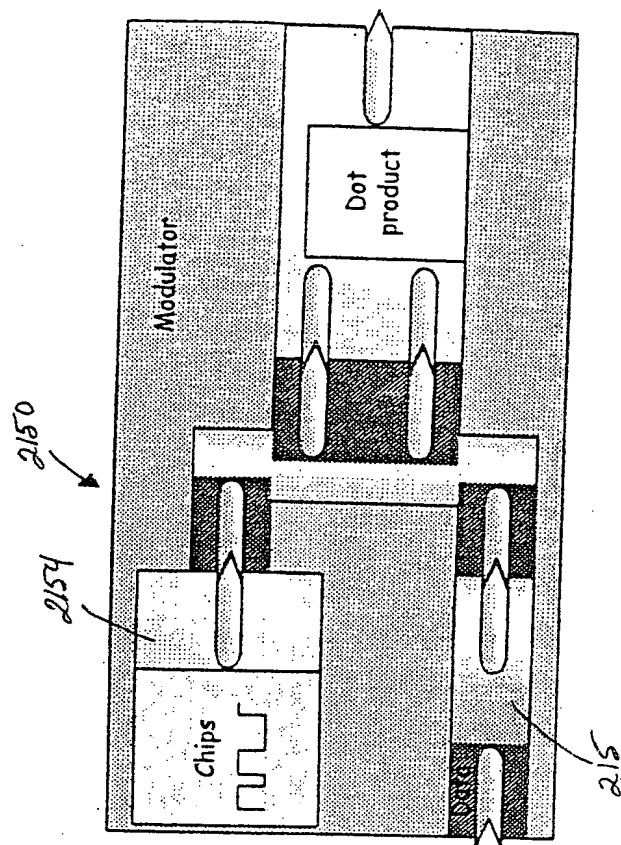


Figure 21B

0968051-062101
101290-19088860

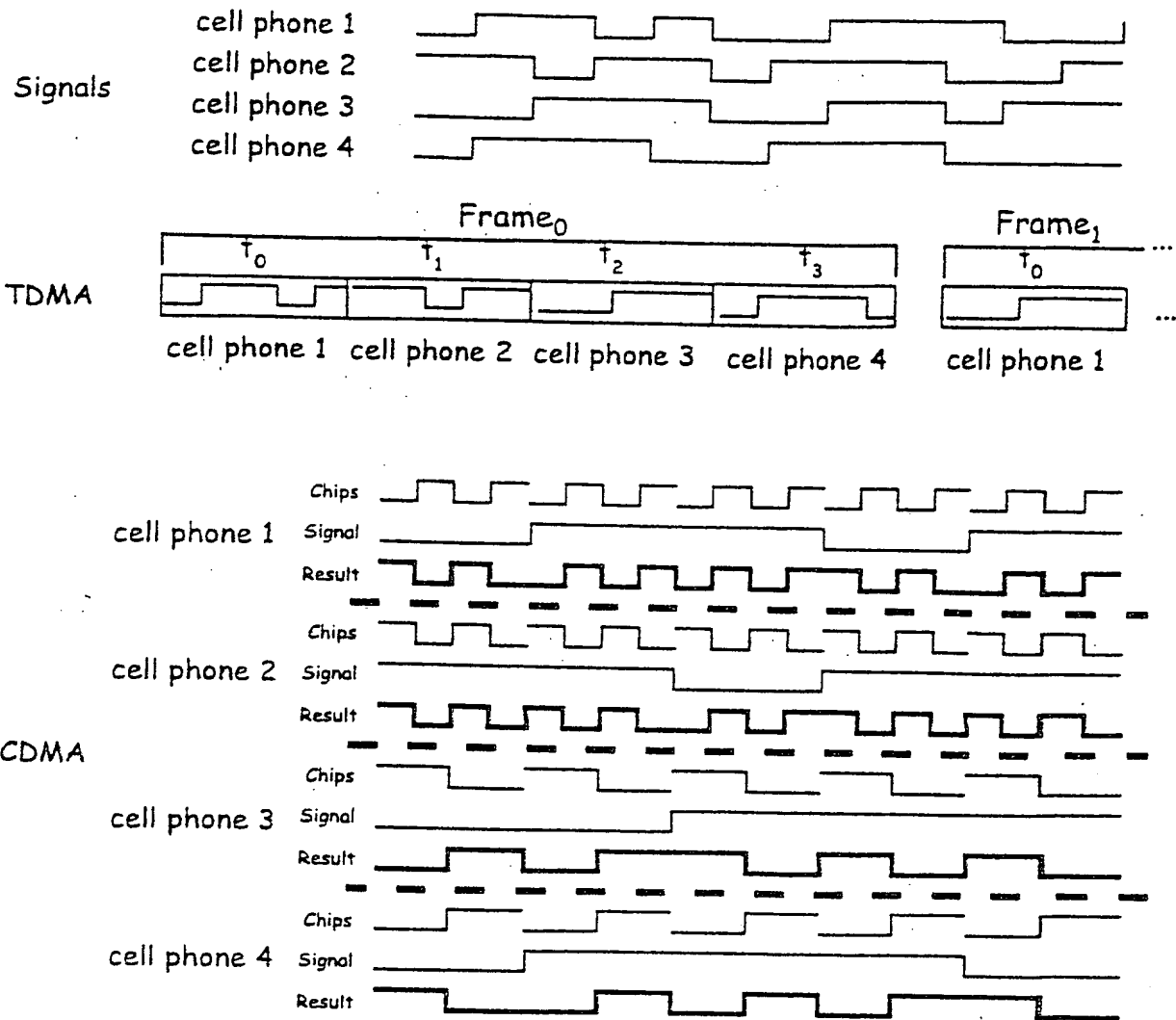


Figure 22

09888061-062101

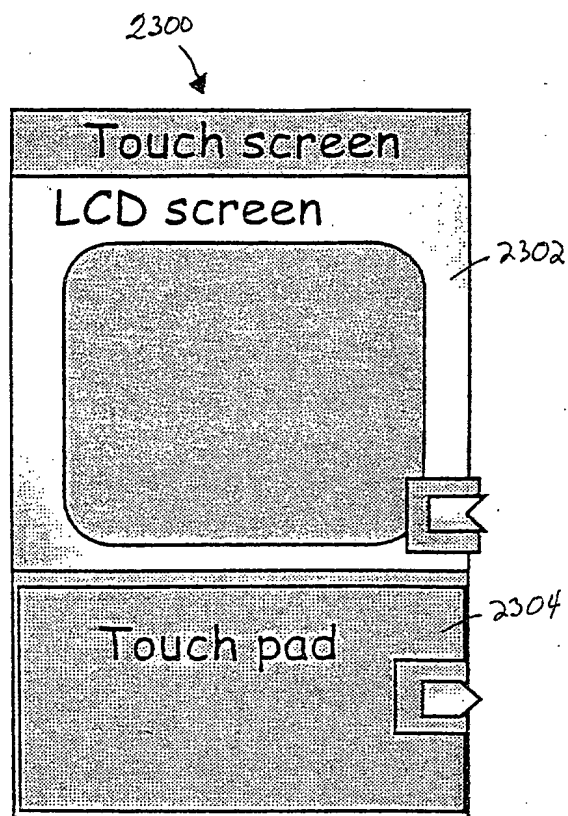


Figure 23A

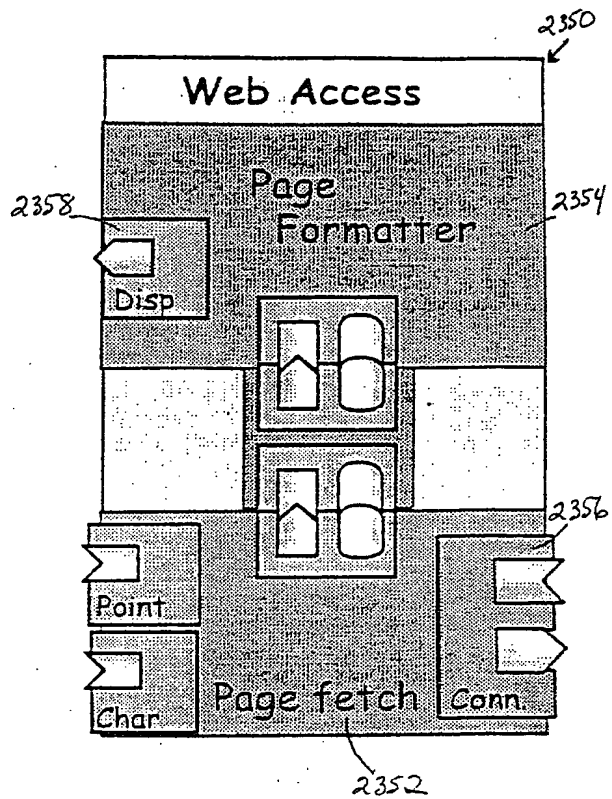


Figure 23B

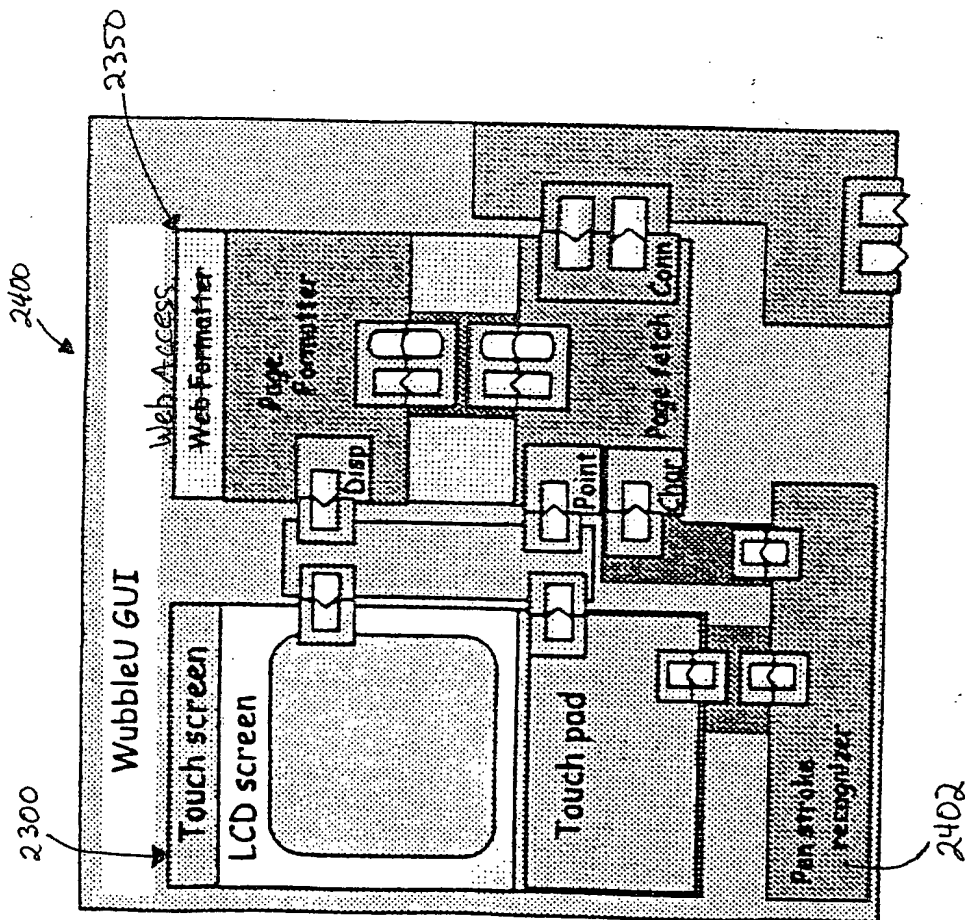


Figure 24A

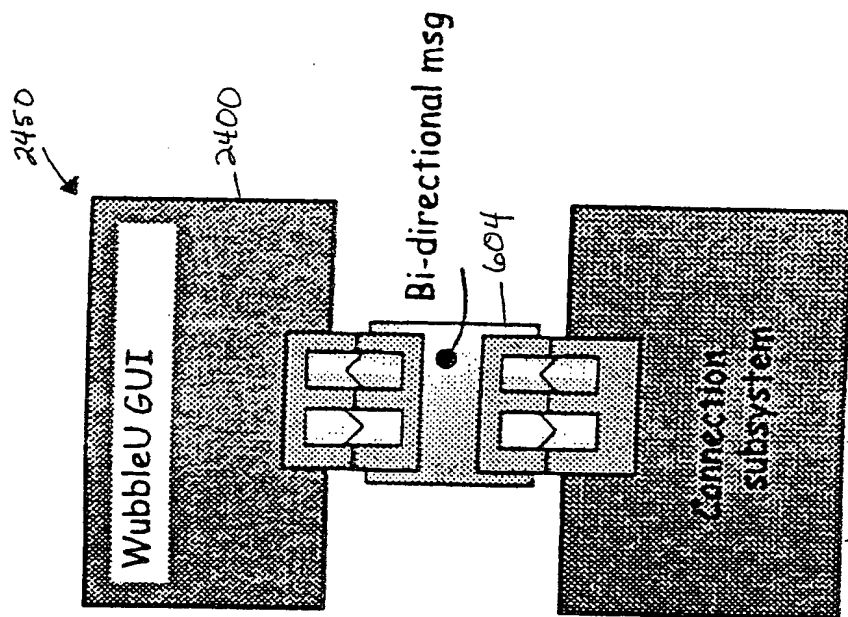


Figure 24B

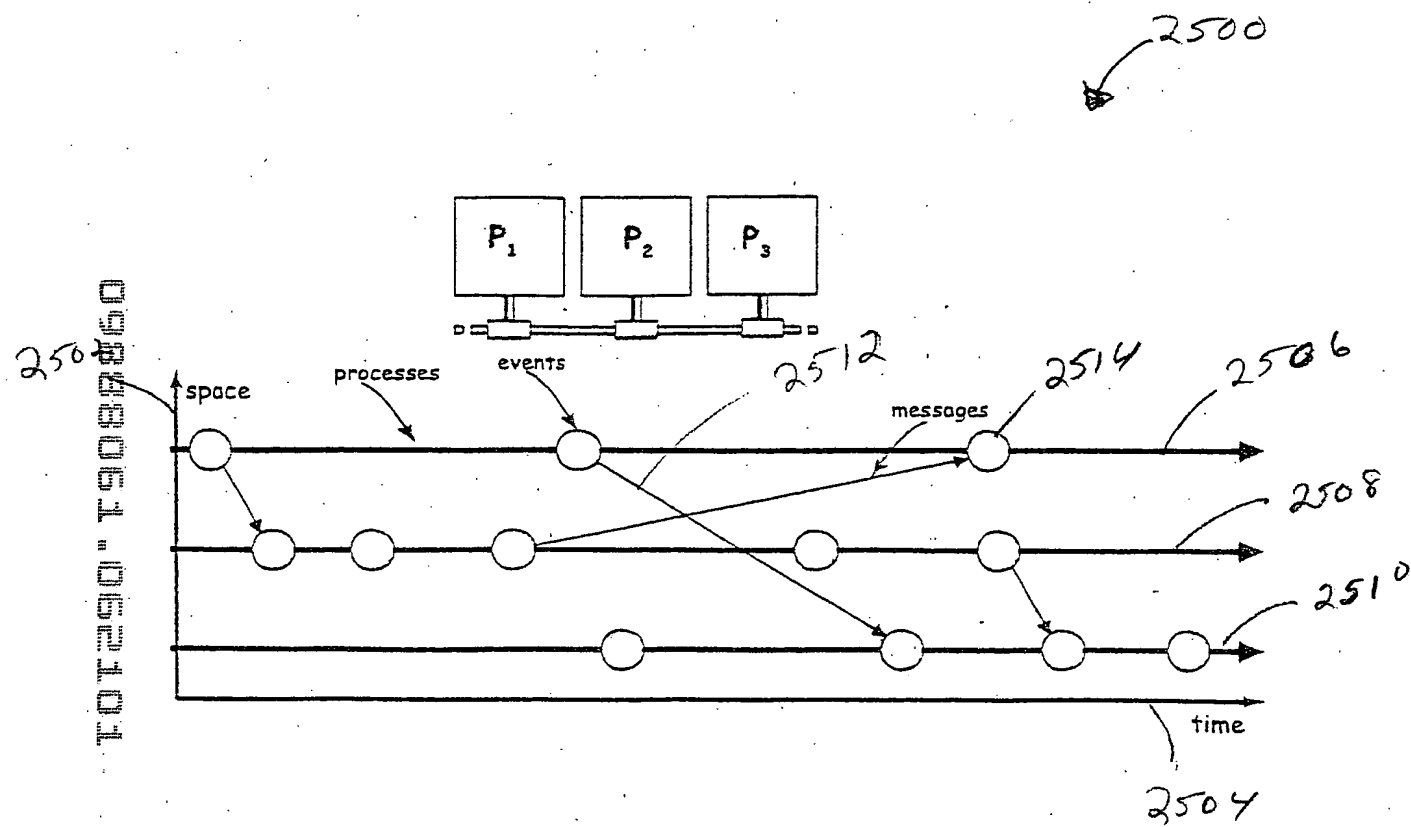


Figure 25

(prior art)

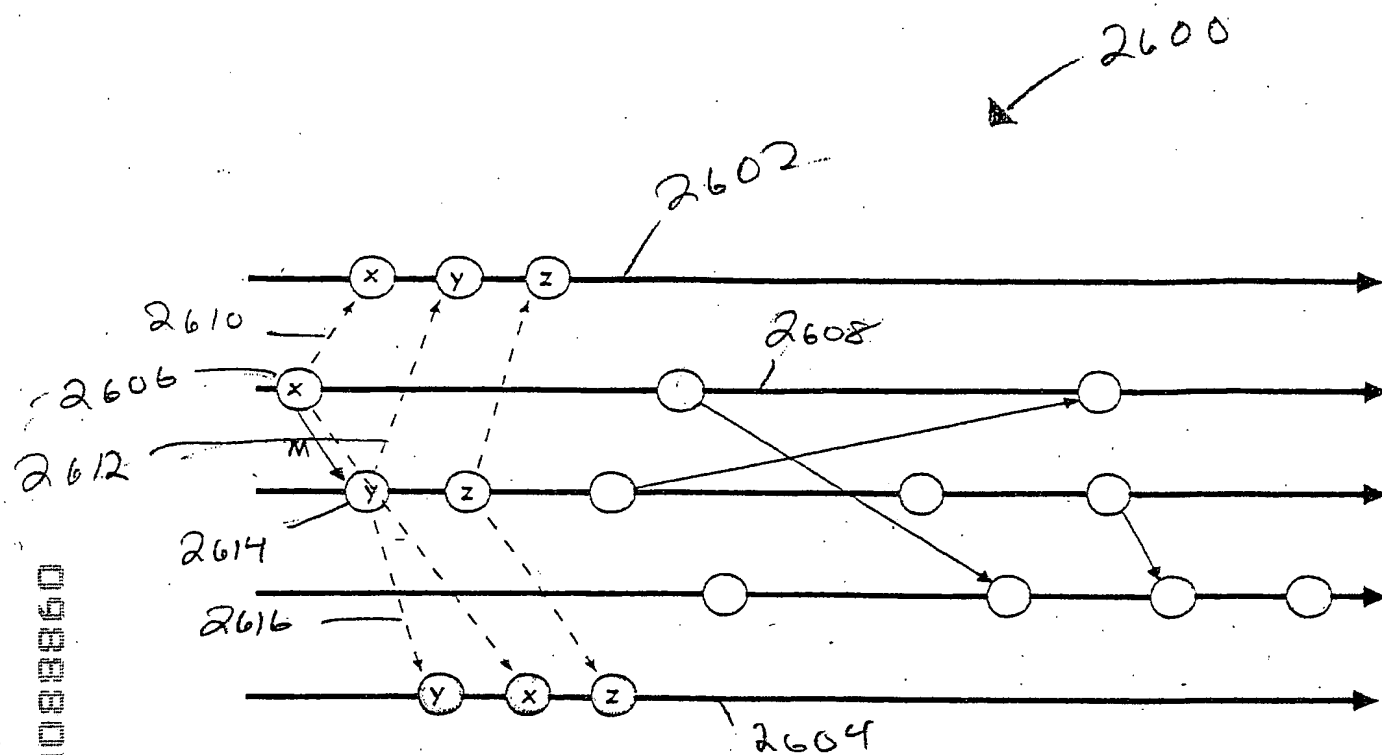


Figure 26

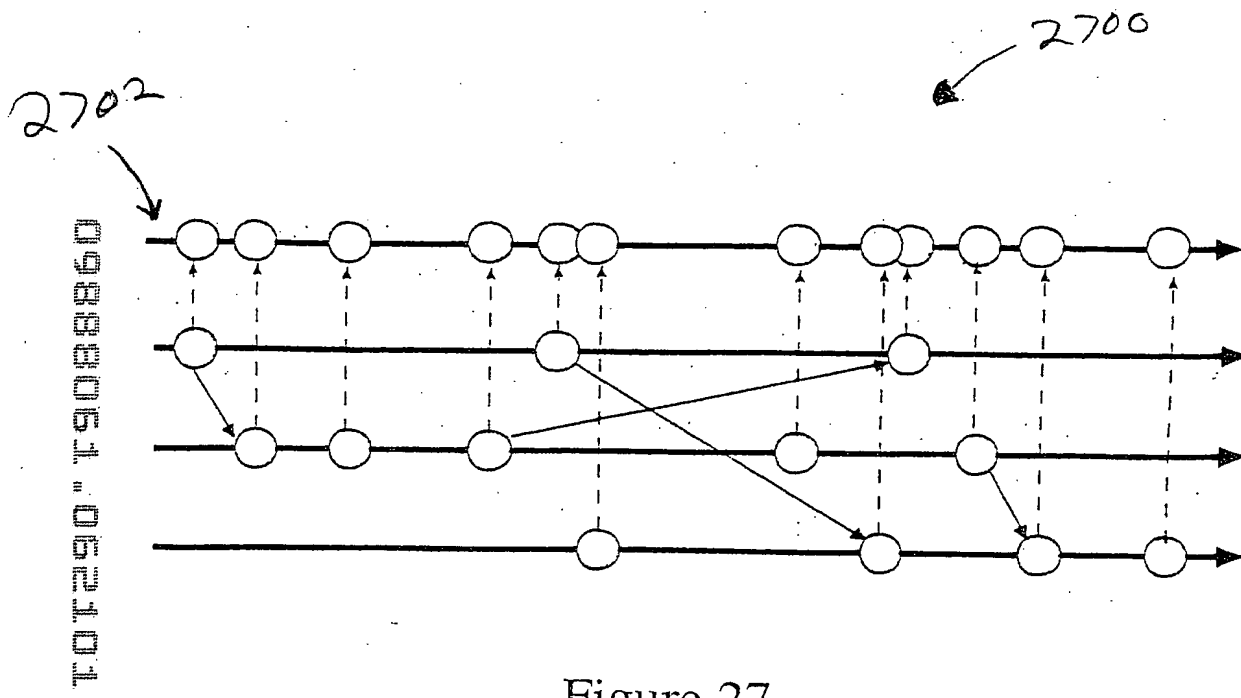


Figure 27

(prior art)

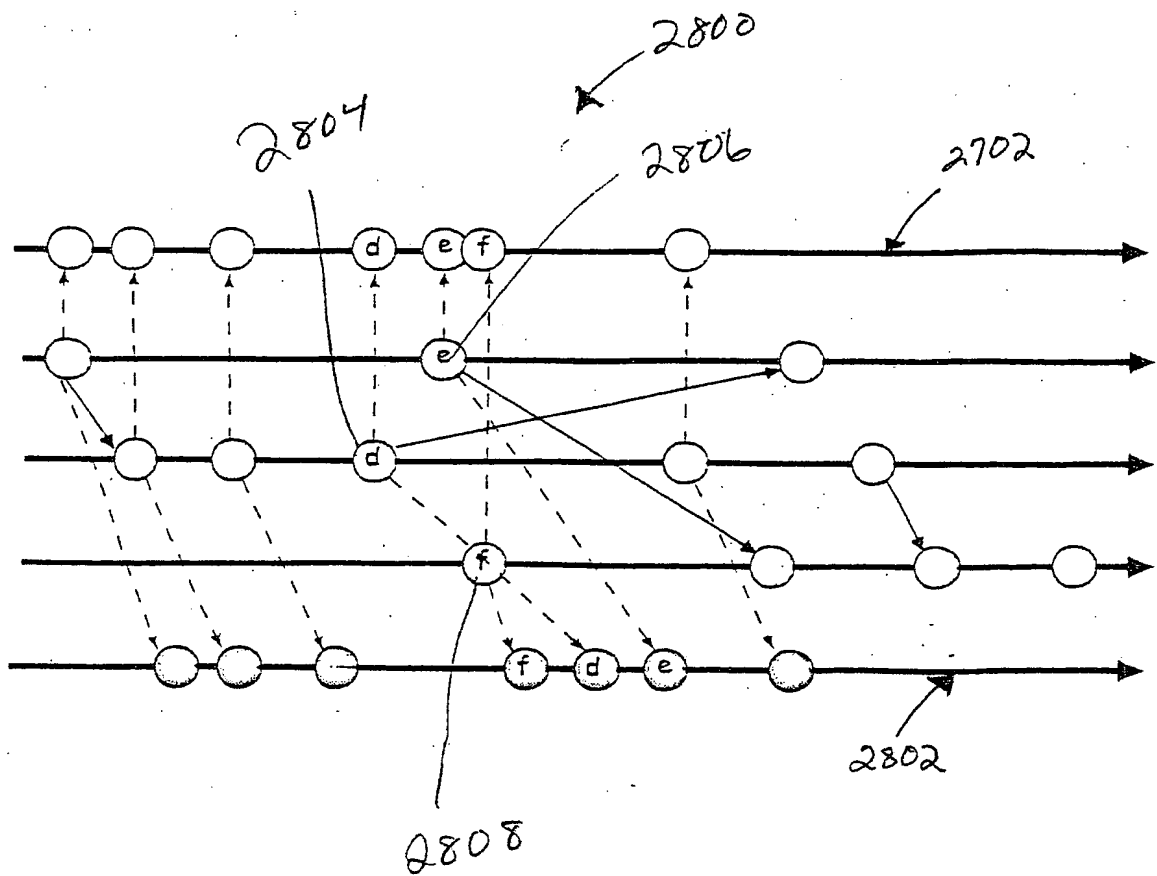


Figure 28

(prior art)

0988061-052101
TOT290-T908860

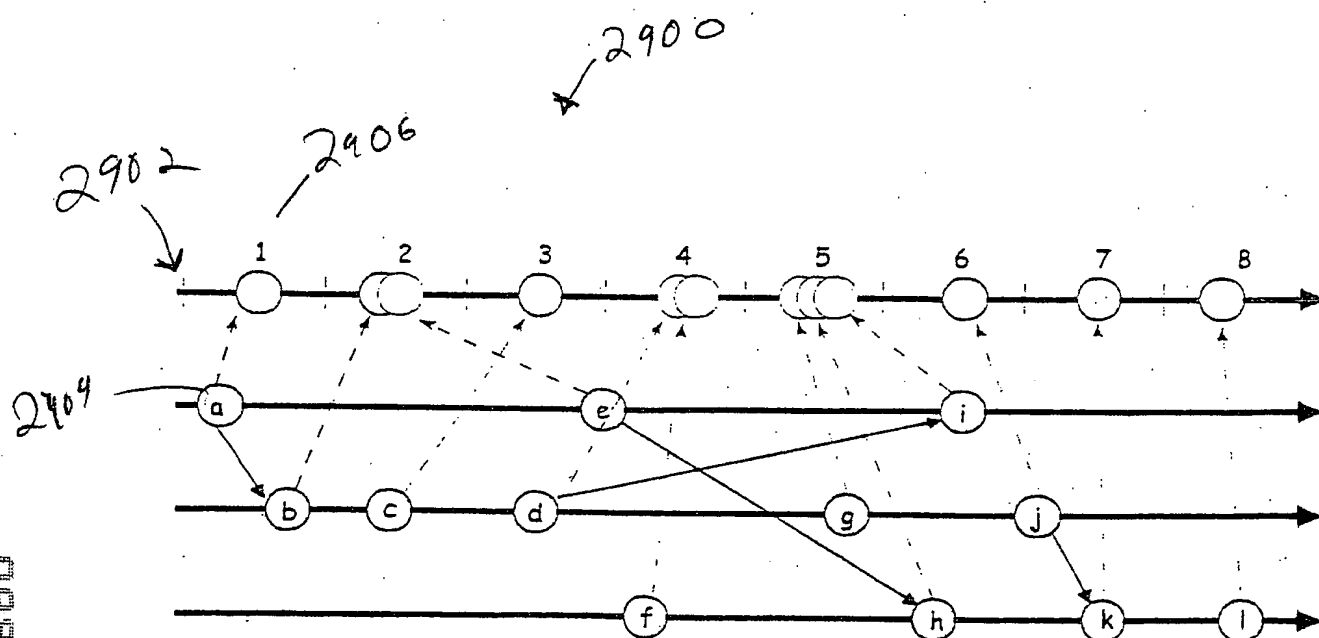


Figure 29

(prior art)

096367

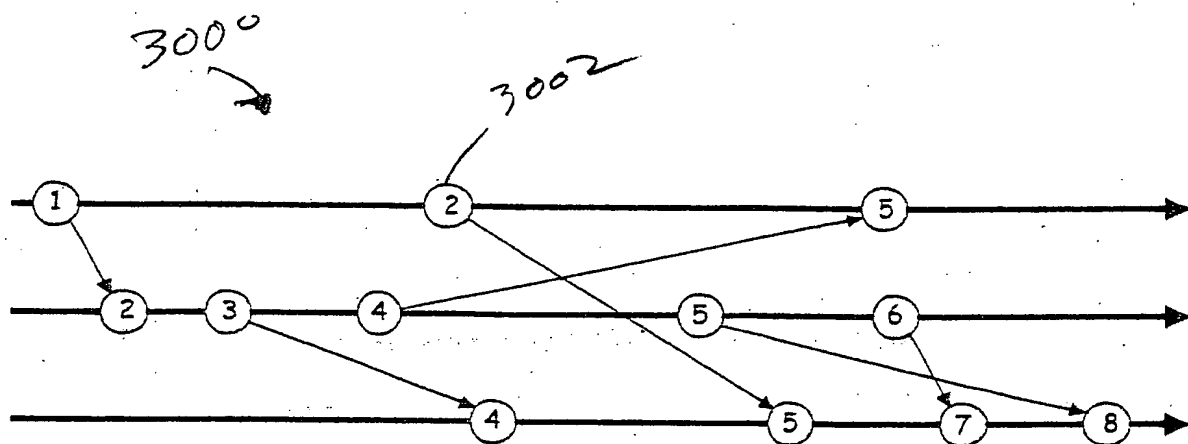


Figure 30

(prior art)

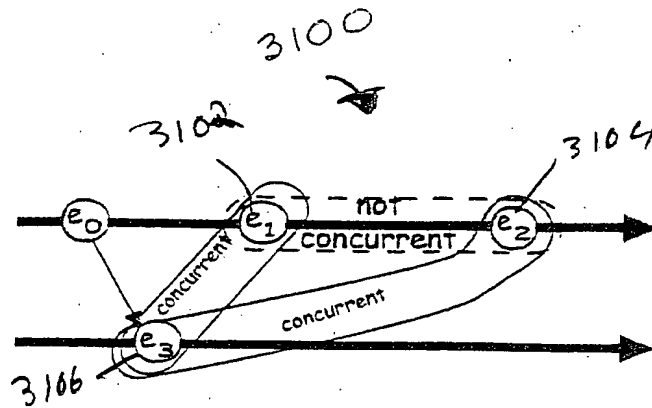


Figure 31

(prior art)

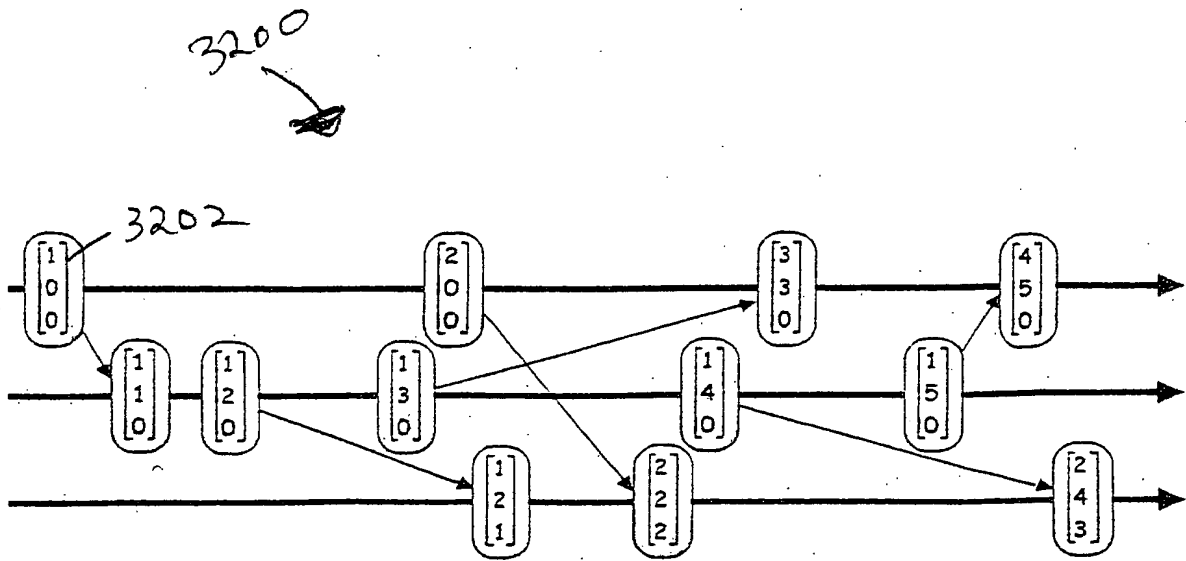


Figure 32

(prior art)

3300

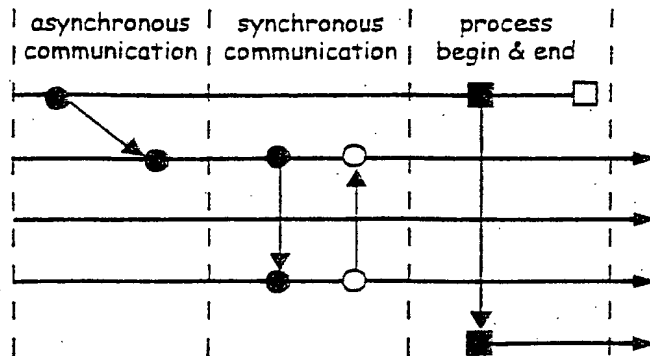


Figure 33

(prior art)

09888061-062101
FOI290-19088860

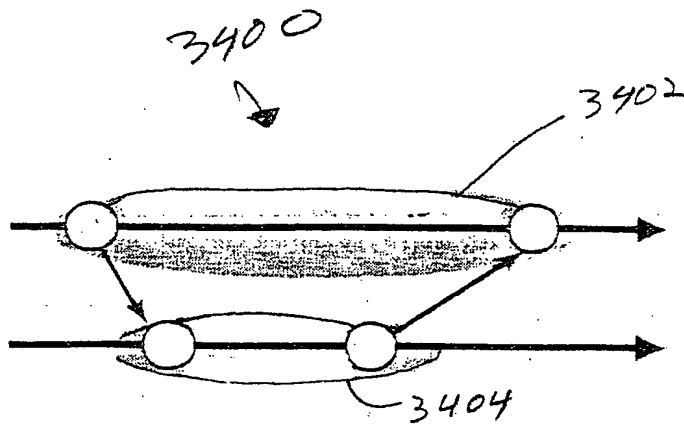


Figure 34

(prior art)

TOT290" T9088860

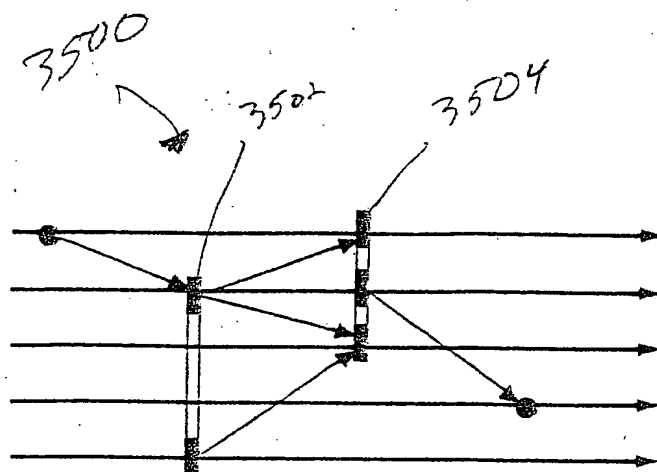


Figure 35

(prior art)

0988061-062101
TOT290-1908860

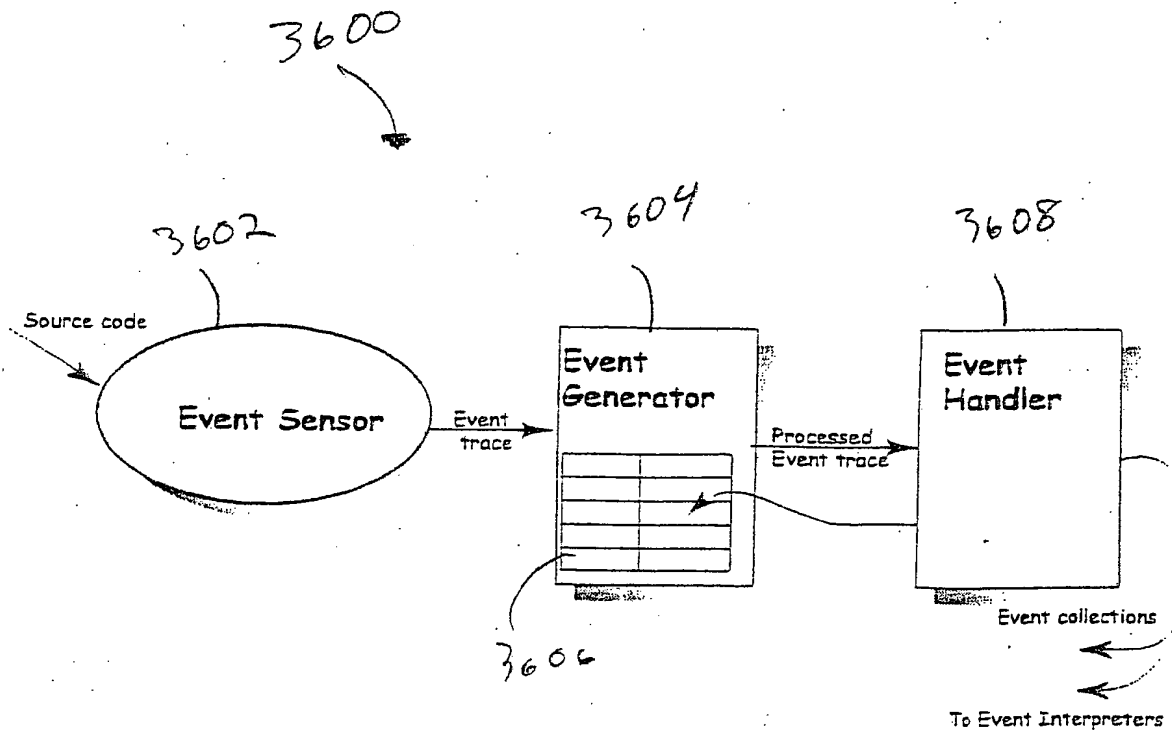


Figure 36

(prior art)

09888061-052101

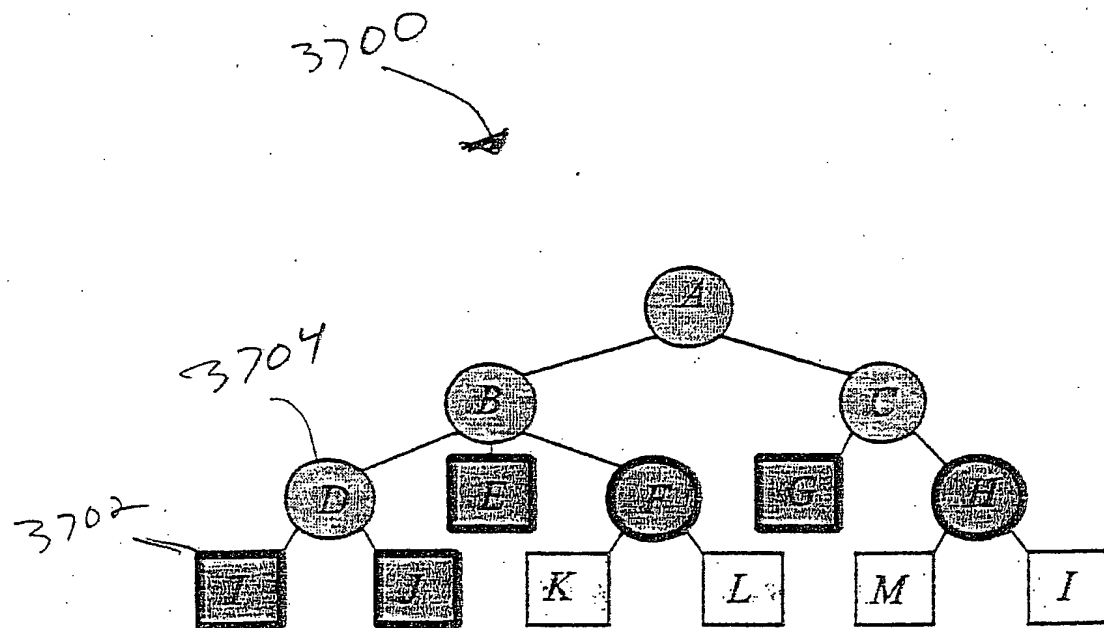


Figure 37

(prior art)

09888061-062101
TOT290 T988860

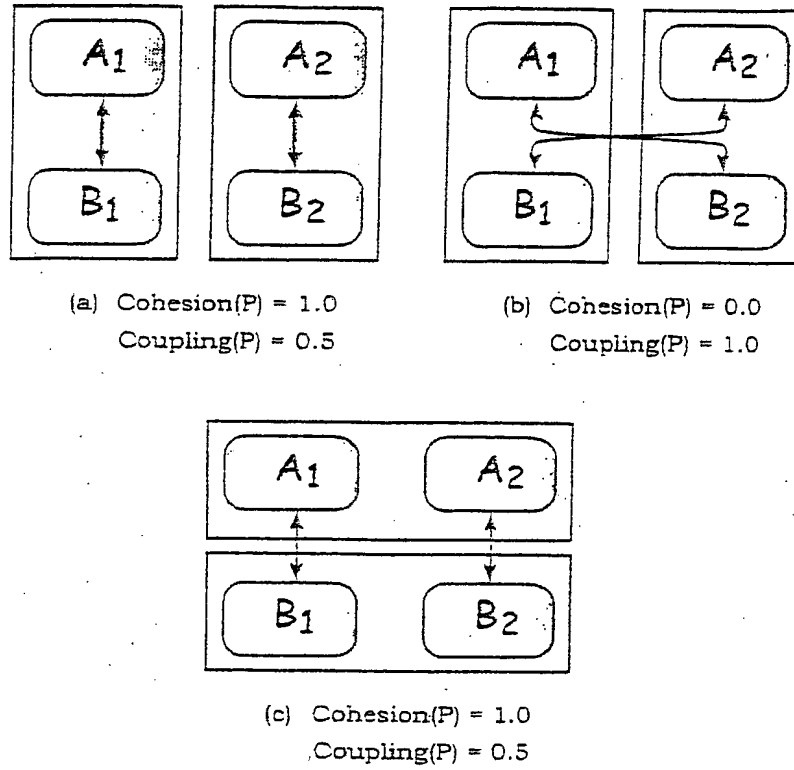


Figure 38

(prior art)

3900

first cut 3902

second cut
3904

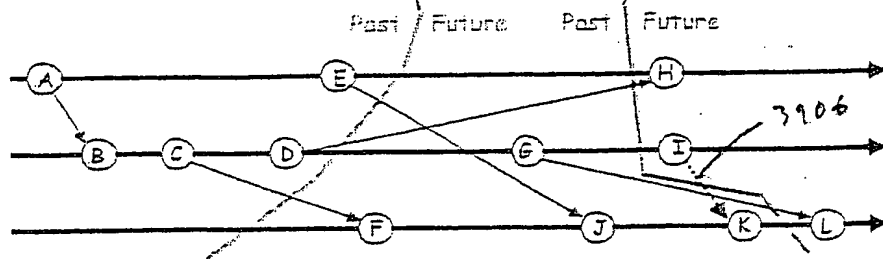


Figure 39

(prior art)

09888061.0162101

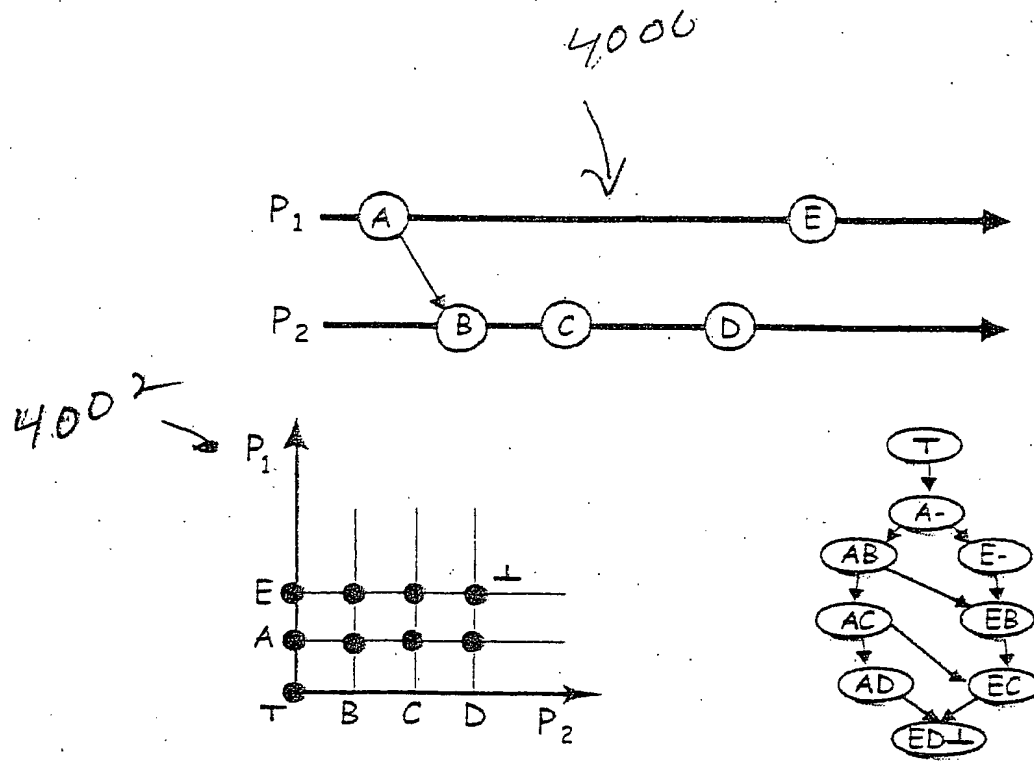


Figure 40

(prior art)

09888061-062101

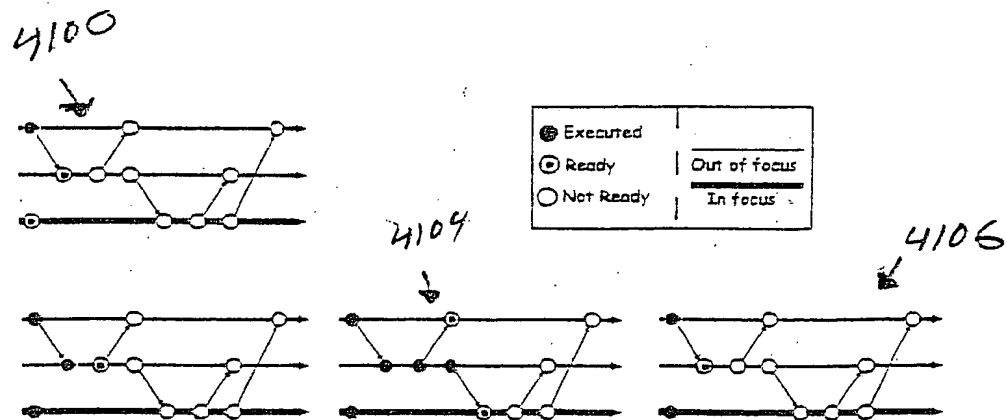


Figure 41

(prior art)

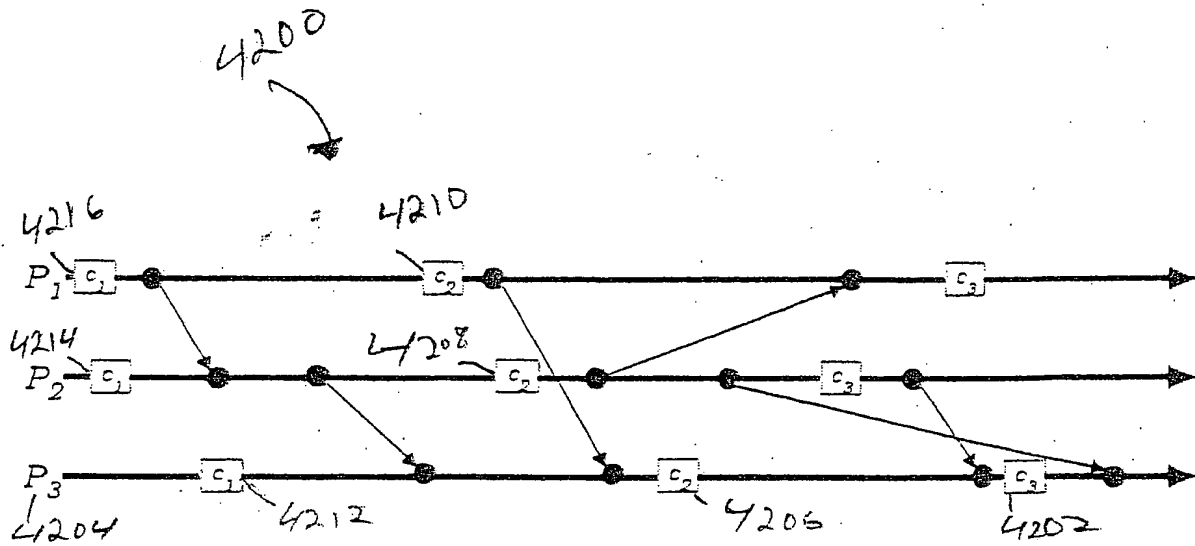


Figure 42

(prior art)

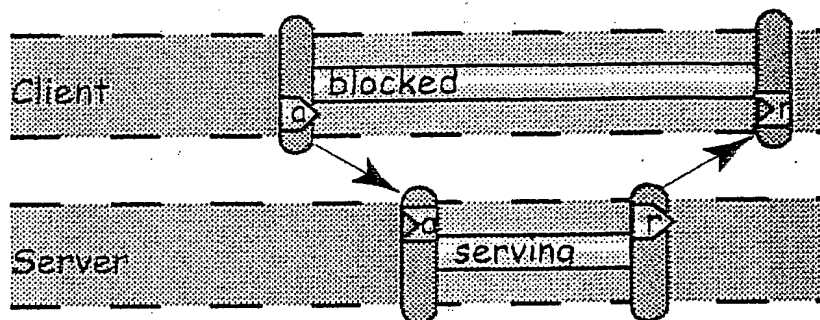
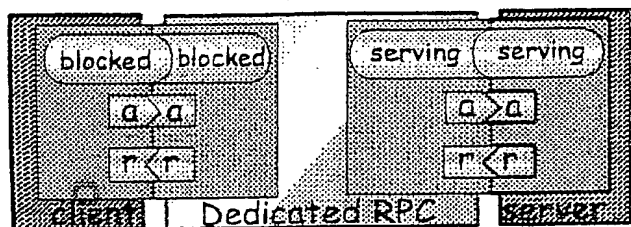


Figure 43

101290-1-062101

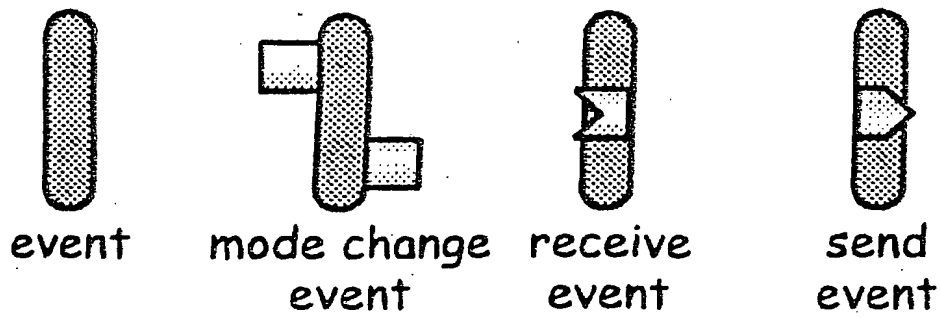


Figure 44

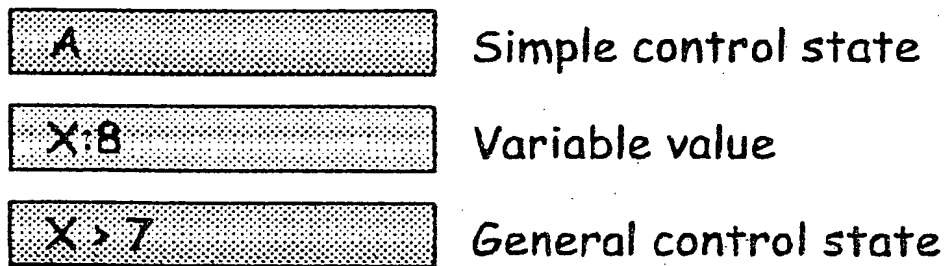


Figure 45


```

if (resourceTaken)
    resourceTaken =
    send(r, 'granted')
)
else (
    send(r, 'fail');
    ...

```

Network Interface

```

...
send(h, 'getResour
while(!new(N));
....
if (!break)
performAction();
send(h, 'release
..

```

X

```

...
send(h, 'getResour
while(!new(N));
c = get(N); ....
if (!req(c, 'granted
g = getAddress();
...
send(g...)//crash

```

Y

Figure 49

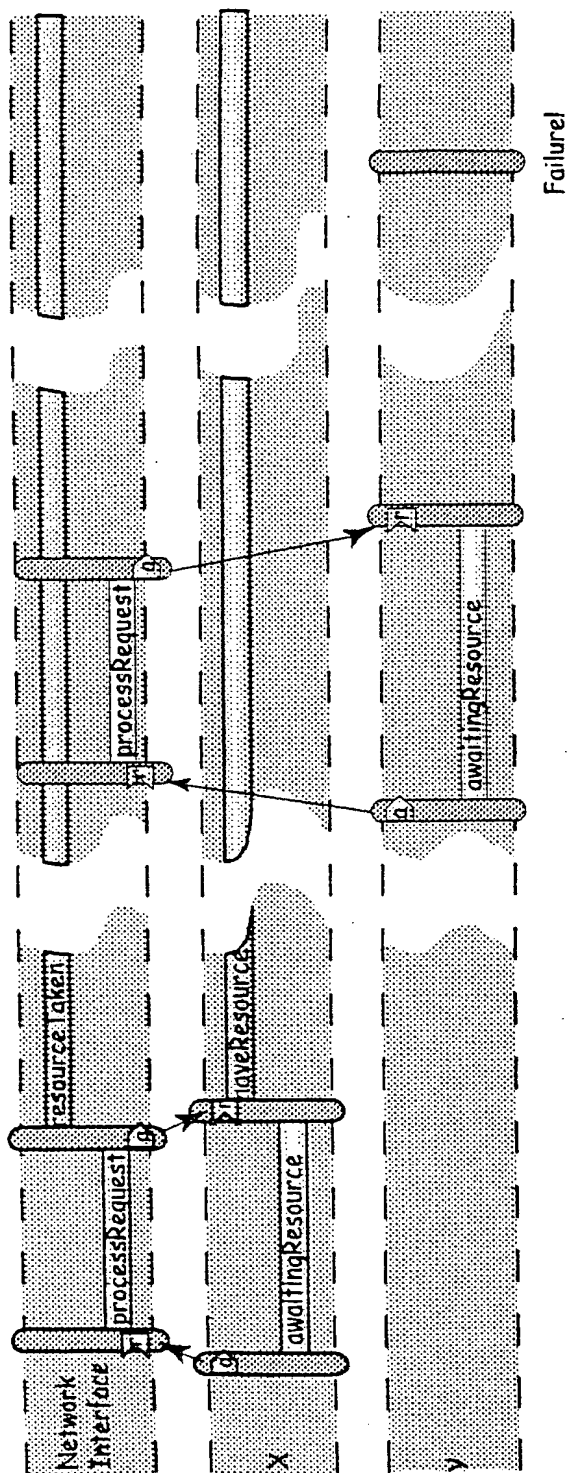


Figure 50

The diagram illustrates a distributed system architecture. On the left, a circular component represents the **Coordinator**. It contains several internal modules: **Coordinator bindings** (top left), **hasToken** (top center), **S** (bottom left), **r** (bottom center), **hasToken** (top right), **pre-empt** (bottom right), and **Interface to round-robin** (center). On the right, a star-shaped component represents the **Preemptor**. It consists of six segments, each containing a **hasToken** module and a **pre-empt** module. The **Coordinator** and **Preemptor** are connected by a central circular hub. Arrows indicate the flow of data and control between the coordinator and the preemptor segments.

Figure 51A

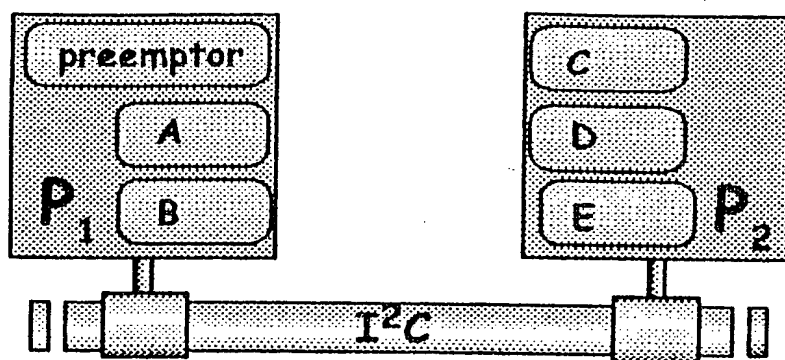


Figure 51B

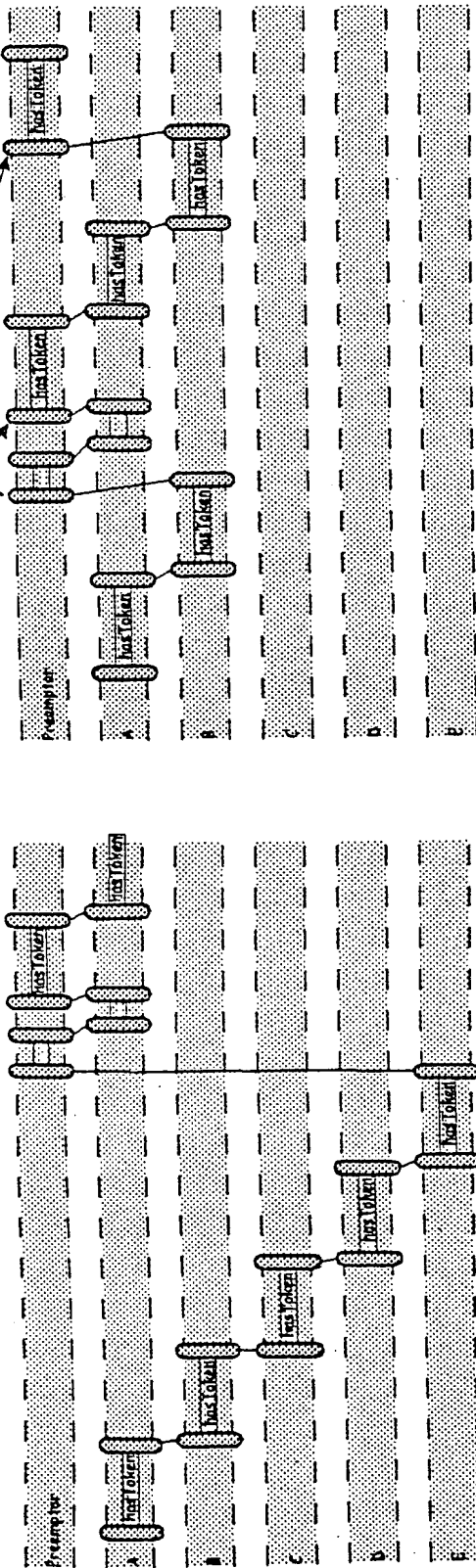


Figure 52A

Figure 52B

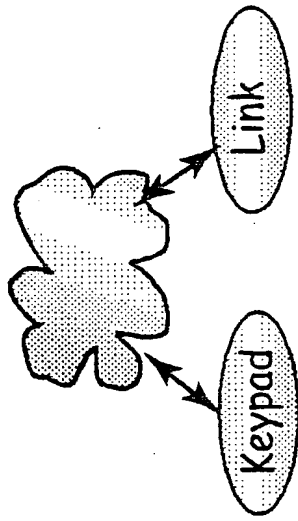


Figure 53A

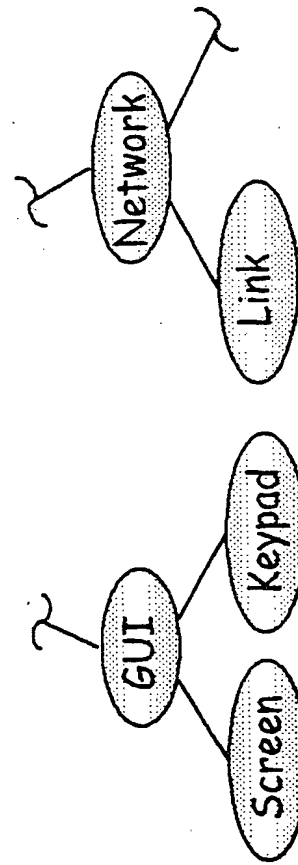


Figure 53B

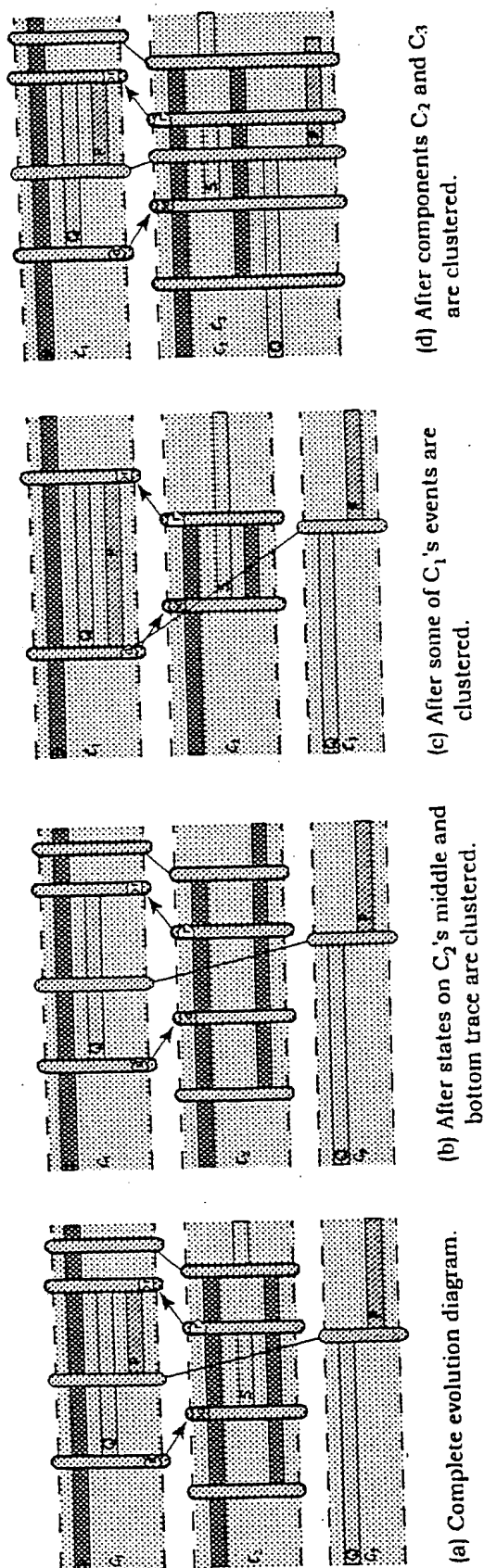


Figure 54

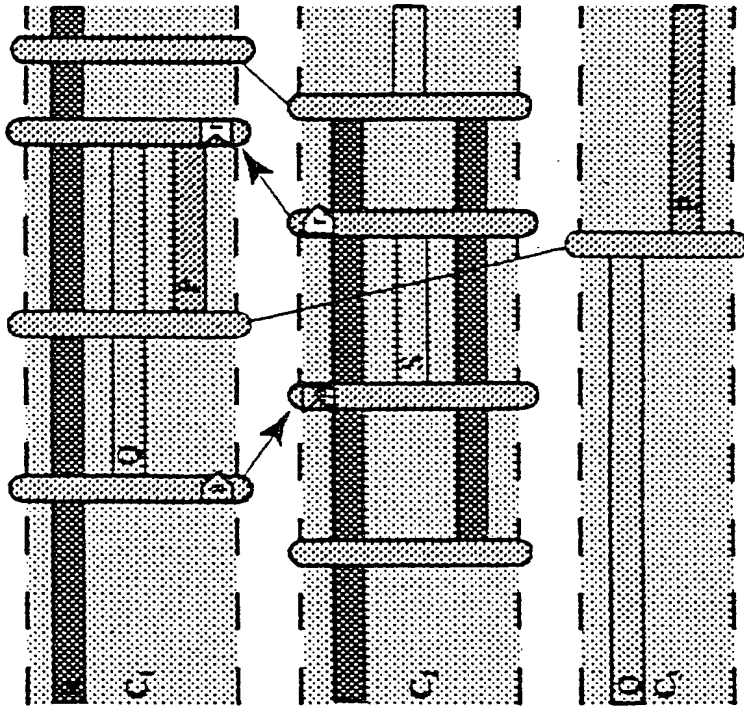


Figure 55A

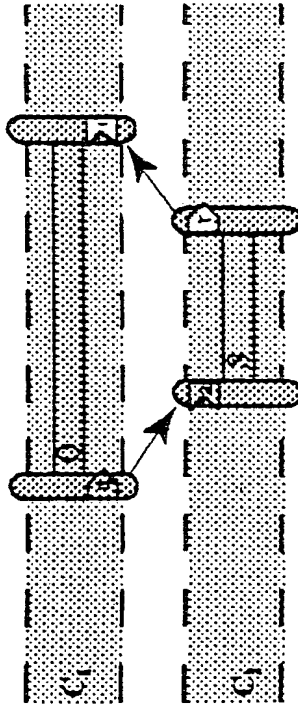


Figure 55B